



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



सं० 21]

नई दिल्ली, शनिवार, मई 26, 2001 (ज्येष्ठ 5, 1923)

No. 21]

NEW DELHI, SATURDAY, MAY 26, 2001 (JYAISTHA 5, 1923)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

[पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस]

[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 26th May 2001

#### ADDRESS AND JURISDICTION OF THE OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Mumbai, Delhi and Chennai having Territorial Jurisdiction on a Zonal basis as shown below :—

Patent Office Branch,  
Todi Estates, III Floor,  
Lower Parel (West),  
MUMBAI-400 013.

The States of Gujarat,  
Maharashtra, Madhya Pradesh and  
Goa and the Union  
Territories of Daman and  
Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE"  
Phone No. 482 5092  
Fax No. 022 495 0622.

Patent Office Branch,  
Unit No. 401 to 405, IIIrd Floor,

Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
NEW DELHI-110 005.

The States of Haryana, Himachal Pradesh,  
Jammu and Kashmir, Panjab Rajasthan,  
Uttar Pradesh and Delhi and the  
Union Territory of Chandigarh

Telegraphic address "PATENTOFIC"  
Phone No. 578 2532  
Fax No. 011 576 6204.

Patent Office Branch,  
Wing 'C' (C-4, A), III Floor,  
Rajaji Bhavan, Besant Nagar,  
CHENNAI-600 090

The States of Andhra Pradesh,  
Karnataka, Kerala, Tamilnadu and  
Pondicherry and the Union  
Territories of Laccadive, Minicoy  
and Aminidivi Islands.

Telegraphic address "PATENTOFIS"  
Phone No. 490 1495  
Fax No. 044 490 1492.

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th & 7th Floors,  
234/4, Acharya Jagadish Bose Road,  
CALCUTTA-700 020.

Rest of India.

Telegraphic address "PATENTS"  
Phone No. 247 4401  
Fax No. 033 247 3851.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and the Patents (Amendment) Act, 1999 or the Patents Rules, 1972 as amended by The Patents (Amendment) Rules, 1999 will be received only at the appropriate offices of the Patent Office

Fees . The fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

### पेटेंट कार्यालय एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 26 मई 2001

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा मुम्बई, दिल्ली एवं चेन्नई में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप से प्रदर्शित हैं :--

पेटेंट कार्यालय शाखा, दोडी इस्टेट,  
तीसरा तल, लोअर परेल (प.),  
मुम्बई - 400 013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश  
तथा गोआ राज्य क्षेत्र एवं संघ  
शासित क्षेत्र, दमन तथा दीव एवं  
दादर और नगर हवेली।

तार पता - "पेटेफिस"  
फोन - 482 5092  
फैक्स - 022 4950 622

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, 3रा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, कोरोल बाग,  
नई दिल्ली - 110 005।

हरियाणा, हिमाचल प्रदेश, जम्मू  
तथा कश्मीर, पंजाब, राजस्थान,  
उत्तर प्रदेश तथा दिल्ली राज्य  
क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़।

तार पता - "पेटेफिक"  
फोन - 578 2532  
फैक्स - 011 576 6204

पेटेंट कार्यालय शाखा,  
विंग "सी" (सी-4, ए),  
तीसरा तल, राजाजी भवन,  
बसंत नगर, चेन्नई - 600 090।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु  
तथा पाण्डिचेरी राज्य क्षेत्र एवं संघ  
शासित क्षेत्र, लक्षदीप, मिनिकाय तथा  
एमिनिदिचि द्वीप।

तार पता - "पेटेटेफिस"  
फोन - 490 1495  
फैक्स - 044 490 1492

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस मार्ग,  
कलकत्ता - 700 020।

भारत का अवशेष क्षेत्र

तार पता - "पेटेट्स"  
फोन - 247 4401  
फैक्स - 033 247 3851

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 1999 अथवा पेटेंट (संशोधन) नियम, 1972 द्वारा अपेक्षित सभी आवेदन सूचनाएं, विवरण या अन्य दस्तावेज या कोई फीस पेटेंट कार्यालय के केवल समुचित कार्यालय में ही ग्रहण किए जाएंगे।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है।

## PETITIONS UNDER RULE 123

The address of the patentee has been changed from 1-2, Marunouchi 2-Chome, Chiyoda Ku, Tokyo 100, Japan to 12-1, Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan, A Japanese company, by the Petition under Rule 123 of the Patents Rules, 1972 in respect of Patent No. 183537.

The name of the patentee has been changed from ELF ATOCHEM NORTH AMERICA INC., to ATOFINA CHEMICALS INC., by the Petition under Rule 123 of the Patents Rules, 1972 in respect of patents Nos. 184634 and 184635.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of a patent on any of the applications concerned, may, at any time within four months from the date of this issue or within such further period not exceeding one month if applied for on Form 4 prescribed under the Patent (Amendment) Rules, 1999 before the expiry of the said period of four months, give notice to the Controller of Patents at the appropriate office on the prescribed Form 7 of such opposition. The written statement of opposition should be filed in duplicate along with evidence, if any with said notice or within sixty days of its date as prescribed in Rule 36 as amended by the Patents (Amendment) Rules, 1999.

The Classification given below in respect of each specification are according to Indian Classification and International Classification systems.

Printed copies of the specification and drawings, if any, can be supplied by the Patent Office or its branch offices on payment of prescribed charges of Rs. 30/- each.

In the event of non-availability of printed specification, photocopies of the specification and drawings, if any, can be supplied by the Patent Office and its branch offices on payment of prescribed photocopy charges @ Rs. 10/- per page of such document plus Rs. 30/-.

## स्वीकृत संपूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि संबद्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त चार (4) महीने की अवधि की समाप्ति के पूर्व, पेटेंट (संशोधन) नियम, 1999 के तहत विहित प्ररूप 4 पर अगर आवेदित हो, एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक एक्सव को उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्ररूप 7 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य दो प्रतियों में साक्ष्य के साथ, यदि कोई हो, उक्त सूचना के साथ या पेटेंट (संशोधन) नियम, 1999

द्वारा संशोधित नियम 36 के तहत यथाविहित उक्त सूचना के तिथि से 60 दिन के भीतर फाईल कर दिये जाने चाहिए।

प्रत्येक विनिर्देश के संदर्भ में नीचे दिये वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप हैं।

विनिर्देश तथा चित्र आरेख, यदि कोई हो, की अंकित प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित 30/- रुपये प्रति की अदायगी पर की जा सकती है।

ऐसी परिस्थिति में जब विनिर्देश को अंकित प्रति उपलब्ध नहीं हो विनिर्देश तथा चित्र आरेख, यदि कोई हो, की फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित फोटोप्रति शुल्क उक्त दस्तावेज के 10 रुपये प्रति पृष्ठ धन 30/- रुपये की अदायगी पर की जा सकती है।

Ind. Cl. : 4A<sub>4</sub>.

185931

Int. Cl.<sup>4</sup> : B64D 47/00.

## A DEVICE FOR PROVIDING MECHANICAL AND THERMAL PROTECTION.

Applicant SOCIÉTÉ DE FABRICATION D'INSTRUMENTS DE MESURE (S.F.I.M.), of 13 Avenue Marcel Ramolfo Garnier 91301 MASSY/France, a French body corporate.

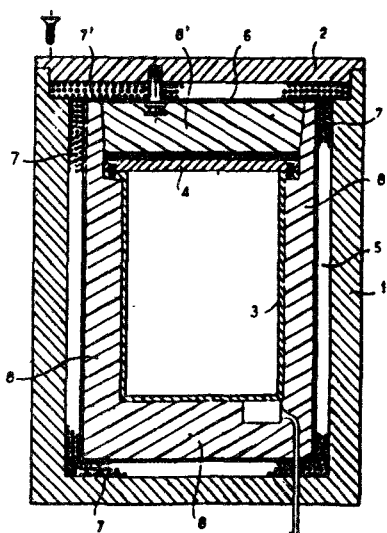
Inventor(s) : GILBERT CHRISTIEN AND YVON DAOULAS.

Application for Patent No. 1287/Del/92 filed on 31st Dec., 92

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110005.

## 14 Claims

A device for providing mechanical and thermal protection, in particular for protecting recorders for recording data concerning flight circumstances of an aircraft, said device comprising an inner box (3, 4) that contains the elements to be protected, an outer box (1, 2) placed around the inner box and which withstands mechanical shocks characterized in that the space between the two boxes has a filling (8, 8') of a reservoir material constituting a solid that has mechanical strength, that contains water suitable for being released under the action of heat, and that includes sufficient multiple cavities to avoid the material expanding under the effect of cold said filling being surrounded by a filling (7, 7') of a stable thermal insulator, said two fillings being separated by a layer (5, 6) suitable for reflecting a portion of any heat flux passing through the stable thermal insulator



(Compl. Specn. : 8 pages;

Drgns. : 1 Sheet)

Ind. Cl. : 146 A

185932

Int. Cl.<sup>4</sup> : G 01 K—1/14.

AN IMPROVED DEVICE FOR MEASURING THE TEMPERATURE THROUGH BOREHOLE IN AN UNDERGROUND MINE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventors : SIBNATH MAITY—INDIA, SRIMOHAN VERMA—INDIA, PINAKI RANJAN GHOSH—INDIA.

Application for patent No. 1170/Del/92 filed on 10.12.92.

Complete left after Provisional filed on 28.12.93.

Appropriate Office for Opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

## 2 Claims

An improved device for measuring the temperature through a bore hole in an underground mine, which comprises, a thermometer (7) being incorporated within an anti-corrosive small diameter casing tube (6), the lower portion of the said tube (6) being perforated around the said thermometer bulb, a wheel (9) being attached by means (8) at the bottom end of the said casing tube (6), a cap (5) and a ring (4) being provided at the top of the said casing tube, the said ring (4) being linked to a weight (3), the said weight (3) having one or more rings (1) at its top for attaching one or more flexible ropes (1), a flexible thin rope being connected at the bottom of the said rope (1) and passing through the said ring (4) parallel to the other ropes (1).

(Provisional Specification : 3 Pages Drawing Nil Sheet)

(Complete Specification : 6 Pages Drawing 1 Sheet)

Ind. Cl. : 131 A<sub>1</sub>, 3 and 131 B<sub>1</sub>.

185933

Int. Cl.<sup>4</sup> : E21C 1/00.

A DEVICE FOR DETECTING THE DIRECTION AND SPAN OF OPENING GALLERY IN AN UNDER GROUND WATER LOGGED AND INACCESSIBLE MINE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor(s) : SIBNATH MAITY—INDIA, BIRRAL CHANDRA BHOWMICK—INDIA, PINAKI RANJAN GHOSH—INDIA.

Application for Patent No. 1171/Del/92 filed on 10.12.92.

Complete left after provisional Specification filed on 28.12.93.

Appropriate Office for Opposition Proceedings Rule 4, (Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A device for detecting the direction and span of opening gallery in an underground water logged and inaccessible mine, which comprises a vertical tube casing (1), rotatably connected by hinges (4) with tube casing (5), characterised in that the said tube casing (5) having an extensible multi telescopic tube (9), the outer end of tube (9) being provided with a float bulb (7) connected to an air tube/electrical cable (2) and a flexible rope (3) alongwith the air tube/electrical cable, the said rope (3) being attached to the external surface of the said tube (5), the said vertical tube (1) having a guide pulley (12) and a top cap (10), the vertical tube being held by a tripod stand (8), the said float bulb (7) being provided with equi-distantly placed one way valves (6) when air tube is used, in such a manner that when compressed air is passed through the said air tube (2) the float bulb moves forward, the said float bulb (7) being provided with a motorised propeller (11).

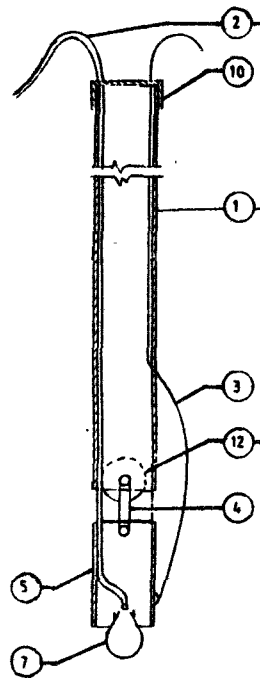


FIG. 1

(Provisional Specification : 7 Pages

Drawing 2 Sheet)

(Complete Specification : 9 pages

Drawing Nil Sheet)

Ind. Cl. : 131A<sub>1,2</sub>  
131B<sub>2,3</sub> 185934

Int. Cl.<sup>4</sup> : E21C 1/00, 37/22.

A DEVICE FOR THE INSTALLATION OF FRICTION BOLTS IN DRILL HOLES IN UNDERGROUND MINES

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor : SIDNATH MAITY, INDIAN.

Application for Patent No. 1173/Del/92 filed on 10.12.92.

Complete left after Provisional Specification filed on 28.12.93.

Appropriate Office for Opposition Proceeding (Rule 4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005.

### 3 Claims

A device for the installation of friction bolts in drill holes in underground mines, which comprises a hydraulic multi stage druble acting ram (I), the said ram being provided with tripod stand at its bottom, characterised in that a holding bucket (4) removably fixed on the top most stage of the said ram to hold the base of a friction bolt (5), a guide (6) being placed on top of the said ram enclosing the said friction bolt, the said guide consisting of two half cylindrical parts longitudinally hinged at one edge to each other and being provided with locking arrangement, a half round plate with a semicircular cut at the centre being fixed at its top end of the said half cylindrical parts to accommodate the friction bolt a plurality of similar plate being flexibly suspended from the plate fixed at the top in such a manner so as to enable free movement of the said plates inside the guide cylinder.

(Provisional Specification : 3 Pages Drawing Nil Sheet)

(Complete Specification : 5 Pages Drawing 1 Sheet)

Ind. Cl. : 39N 185935

Int. Cl.<sup>4</sup> : C08F 4/26, 4/78.

AN IMPROVED PROCESS FOR THE PREPARATION OF IRON MOLYBDATE CATALYST.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act, INDIA.

Inventor(s) : ARUMUGAMANGALAM VENKATARAMAN RAMASWAMY-INDIA, ARVIND NARAYAN KOTASTHANE-INDIA, VASUDEO PANDURANG SHIRALKAR-INDIA & PAUL RATNASAMY-INDIA.

Application for Patent No. 1177/Del/92 filed on 10.12.92

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005

### 7 Claims

An improved process for the preparation of iron molybdate catalyst which comprises contacting aqueous solutions of a ferric salt such as ferric chloride or ferric nitrate and ammonium paramolybdate by simultaneous addition to a conventional buffer solution of pH between 1 and 2 at a temperature in the range of 30°C-100°C to form a precipitate under constant agitation, wherein the molar ratio of molybdenum to the iron is kept greater than 2/1, ageing the resultant precipitate, separating and washing the said precipitate with deionised water till sodium, chloride and nitrate are substantially removed from the washing solution, then drying and calcining the catalyst at a temperature in the range of 300-450°C by gradual heating.

(Complete specification 13 pages Drawing Nil Sheet)

Ind. Cl. : 62E 185936

Int. Cl.<sup>4</sup> : D006F 13/00.

A METHOD OF TREATING THE SOILED FABRICS

Applicant WHIRLPOOL CORPORATION, 2000 M-63, BENTON HARBOR, MICHIGAN 49022, U S A

Inventor(s) : JOHN W EULER  
SHERLY L FARRINGTON  
JEANNE C VAN NEWENHIZEN  
MARK B KOVICH  
JIM J PASTRYK  
ANTHONY H HARDAWAY

Application for Patent No. 2/Del/93 filed on 1.1.93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005

### 2 Claims

A method of treating the soiled fabrics to remove the extraneous material from said fabrics to restore to its former condition, in an automatic washing machine having a washer with a wash chamber rotatable about a horizontal axis comprising the following steps,

(a) rotating said wash chamber around its horizontal axis for a first period of time having detergent solution of at least 0.5% detergent by weight,

(b) draining said detergent solution from said wash chamber subsequent to said first period of time while spinning said wash chamber at a speed to effect more than a one gravity centrifugal force on said fabric such that said fabric will not tumble within said wash chamber as it spins.

(c) rinsing said fabric by spraying water directly on to said fabric and recirculating water to said wash chamber by spraying said recirculating water directly onto said fabric while spinning said wash chamber at a speed to effect less than a one gravity centrifugal force on said fabric such that the said fabric will tumble within said wash chamber as it spins,

(d) draining said wash chamber of said rinse water while spinning said wash chamber at a speed to effect more than a one gravity centrifugal force on said fabric such that said fabric will not tumble within said wash chamber as it spins, and

(e) repeating steps (c) and (d) a number of times

(Complete Specification 23 Pages Drawing 6 Sheets)

Ind Cl 35A

185937

Int Cl<sup>+</sup> E02D—15/00

### A METHOD OF PRODUCING DAILY COVER USED FOR LANDFIL

Applicant RECOVERMAT TECHNOLOGIES L L C ,  
A MARYLAND LIMITED LIABILITY COMPANY,  
LOCATED AT 4922-A ST, ELMO AVENUE BETHESDA,  
MARYLAND 20814, U S A

Inventor ROBERT PAUL SMITH—U S A MICHAEL  
IRWIN PRICE—U S A

Application for Patent No 14/Del/93 filed on 7 1 93

Appropriate Office for Opposition Proceedings (Rule 4  
Patents Rules 1972), Patent Office Branch, New Delhi-  
110 005

#### 3 Claims

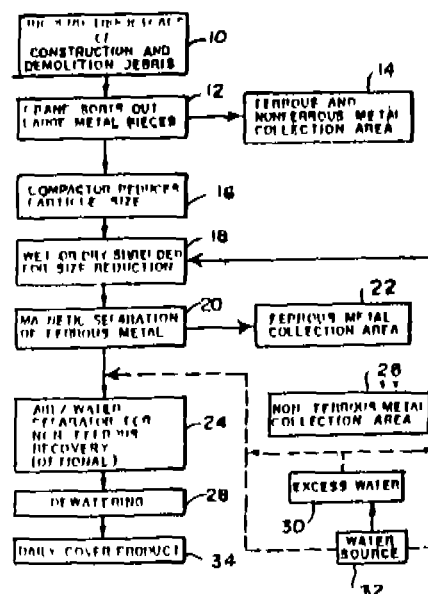
A method of producing daily cover to be used for a  
sanitary landfill from construction and demolition debris,  
the method being characterized in the combined steps of

adding water to a supply of construction and demolition  
debris associated with the razing of building, roads and  
other structures, including ferrous and non-ferrous metals  
concrete, bricks, lumber, plaster and plaster board as herein  
described, and

shredding said debris in a shredder so as to produce a moist  
shredded product having an average particle size of less  
than six inches and with a moisture content in the range  
of 5% to 30% by weight sufficient to permit use of said  
product as daily cover for a landfill, said shredding com-  
prising, reducing said construction and demolition debris  
to a first average particle size by compacting said debris,  
reducing said compacted debris to a second average par-  
ticle size less than the first average particle size by wet  
shredding said debris,

separating ferrous metal from said shredded debris and if  
required,

dewatering said shredded debris to said moisture content  
and optionally separating any ferrous or non-ferrous metal  
components prior to or after said wet shredding



(Comp Spec 14 Pages

Draw 1 Sheet)

Ind Cl 190B

185938

Int Cl<sup>+</sup> F 02C 3/14

### APPARATUS FOR STABILIZING COMBUSTION IN A GAS TURBINE COMBUSTORS

Applicant GENERAL ELECTRIC COMPANY A COR-  
PORATION ORGANISED AND EXISTING UNDER THE  
LAWS OF STATE OF NEW YORK, AT 1 RIVER ROAD  
SCHENECTADY, STATE OF NEW YORK 12345, U S A

Inventor STEPHEN H BLACK—U S A

Application for Patent No 24/Del/93 filed on 12 1 93

Appropriate Office for Opposition Proceedings (Rule 4  
Patents Rules 1972), Patent Office Branch, New Delhi  
110 005

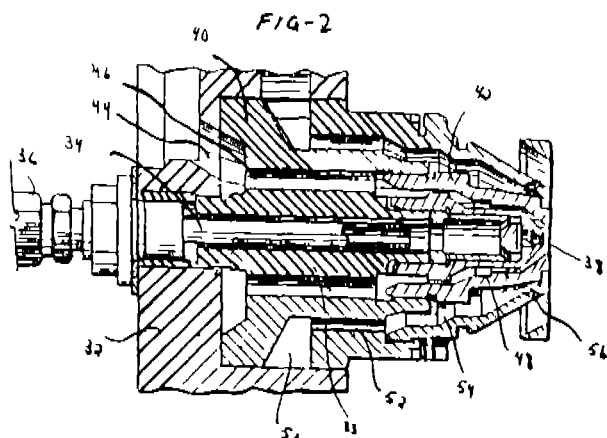
#### 4 Claims

Apparatus for stabilizing combustion in a gas turbine com-  
bustor <sup>10</sup> operable in a lean premixed mode and having a  
premixer zone characterized by

—an air supply system including an opening for delivering  
air into the premixer zone<sup>(17)</sup> of the combustor and having a  
predetermined pressure upstream of said opening,

—a nozzle<sup>(18)</sup> including a fuel passage having a discharge orifice for delivering fuel into the premixer zone and

—means upstream of said fuel discharge orifice for reducing the fuel pressure upstream of said fuel discharge orifice to said predetermined pressure, said air supply opening and said fuel discharge orifice having the same pressure drop, whereby pressure fluctuations in the premixer zone<sup>(12)</sup> resulting from fuel/air concentration oscillations are minimized or eliminated



(Complete Specification 19 Pages Drawing 3 Sheets)

Ind Cl 127I 185939

Int Cl<sup>4</sup> F16J 15/16, B 61H 15/00

**AN END PIECE ANNULAR SEAL FOR A SLACK ADJUSTER**

Applicant SAB WAB CO AB, A SWEDISH COMPANY, OF BOX 515, S-261 24, LANDSHRONA SWEDEN

Inventor(s) UNO KARLSSON—SWEDEN

Application for Patent No 30/Del/93 filed on 14 I 93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005

2 Claims

An end piece annular seal for an axial slack adjuster, said end piece annular seal comprising

a tube (3) movable axially and rotatably relative to a slack adjuster barrel (2)

said barrel (2) having an end thereof surrounding said tube (3) and an end piece sealing member (1) cooperating with

the rotatably and axially movable tube (3), said end piece sealing member (1) having an internal diameter bore corresponding to an external diameter of said tube (3),

characterized in that said end piece sealing member (1) extends circumferentially about said tube (3), an internal circumferential groove (4) in said end piece sealing member (1) extending about said tube (3), said groove (4) serving as a compartment for accumulating contaminants entering from the exterior through said end piece sealing member (1), said end piece sealing member (1) being provided with a plurality of channels (5) extending from said groove (4) outwardly to an end wall of said end piece sealing member (1), said channel (5) providing a path of least resistance for contaminants to leave said groove (4) as compared to any path inwardly directed between said tube (3) and said end piece sealing member (1)

(Complete Specification 5 Pages Drawing 1 Sheet)

Ind Cl 176 H

185940

Int Cl<sup>4</sup> F 25D 39/04

**A FIN ON TUBE STACK FOR HEAT EXCHANGE**

Applicant SIDWAL REFRIGERATION INDUSTRIES PVT LTD, PLOT NO 23, SECTOR 6, FARIDABAD-121 001, HARYANA, AN INDIAN NATIONAL, INDIA

Inventor(s) SHERJANG SINGH SIDHU—INDIA

Application for Patent No 41/Del/93 filed on 20 I 93

Complete Left After Provisional Specification Filed on 21 4 94

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972), Patent Office Branch New Delhi-110 005

4 Claims

A fin on tube stack for heat exchange applications comprising

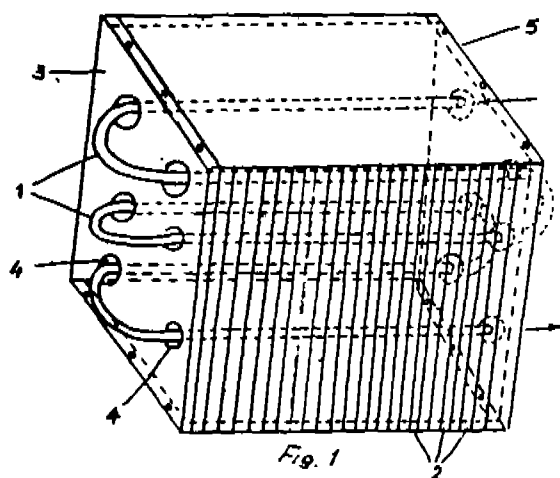
(i) a plurality of flow tubes (1) disposed in a spaced relationship to each other for the flow of a working fluid therein,

(ii) a plurality of fins (2) surrounding said flow tube being secured to said tubes in a spaced relationship with each other

(iii) end plates (3) being provided at either end of said stack of flow tube,

(iv) characterized in that a plurality of holes (4) of larger diameter are provided in said end plates (3) to provide a clearance between said tubes 1 and its respective holes (4),

(v) locking/positioning means provided at top and bottom side of said fins to lock the end plates in position



(Provisional Specification : 7 Pages

Drawing Nil  
Sheet)

(Complete Specification : 10 pages

Drawing 1 Sheet)

Ind. Cl. : 107G

185941

Int. Cl.<sup>4</sup> : F 02B—1/00, 13/00.**A DEVICE FOR DUAL FUEL OPERATION OF DIESEL ENGINES WITH ALCOHOLS.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

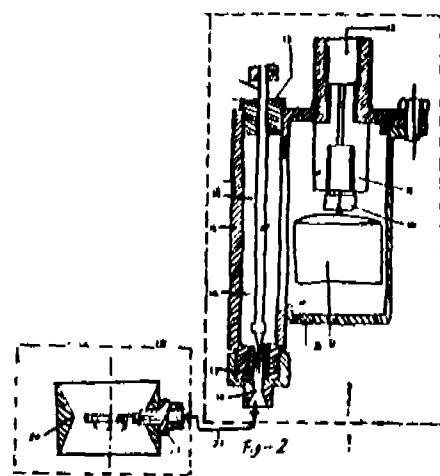
Inventor(s) : DINESH KUMAR, AMAR KUMAR JAIN, ASHISH KUMAR GONDAL, INDRA PAL SINGH, KANCHAN KUMAR GANDHI, SUDHIR SINGHAL AND BUDH PRAKASH PUNDUR—(INDIAN).

Application for Patent No. 71/Del/93 filed on 28.1.93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

**2 Claims**

A device for dual fuel operation of diesel engines with alcohols which comprises a fuel metering unit (7), the said fuel metering unit consists of a float chamber (8), the said float chamber (8) enclosing a float (9) for keeping alcohol level constant in the float chamber (8), the said float (9) being fixed to an adapter (11) through a needle valve (10) to the alcohol inlet (12), a metering chamber (14) being connected to the said float chamber (8), characterised in that the upper portion of the said metering chamber (14) being provided with a bush (13) and lower portion being provided with a metering jet (17) and a tapered metering needle (16) capable of sliding through the said chamber (14) the fuel induction unit (19) consisting of a venturi (20) and a fuel jet (21), the said fuel metering unit (7) and the said fuel induction unit (19) being connected through an outlet adapter (18) to the fuel jet (21) by a flexible tube (22).



(Complete Specification 8 pages

Drawing 3 Sheets)

Ind Cl : 188A

185942

Int. Cl.<sup>4</sup> : C 01B—6/21+6/24.**AN IMPROVED PROCESS FOR THE PREPARATION OF LITHIUM MANGANESE OXIDE USEFUL AS CATHODE MATERIAL**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI 110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT

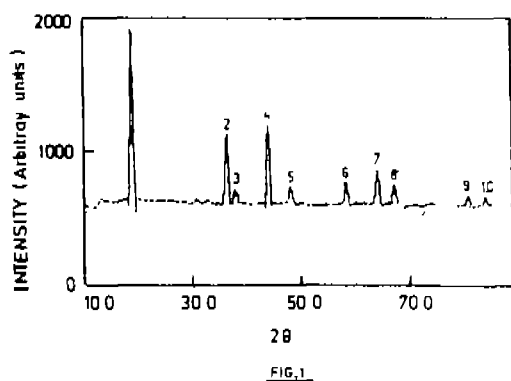
Inventor(s) THIRIVIKRAMAN PREM KUMAR—INDIA, MICHAEL DASON SILUVAI MICHAEL—INDIA PEESPATI VENKATA SESHADRI SEKAR PRABHU—INDIA, RAMA IYER GANGADHARAN—INDIA SARUKKAI KRISNAMACHARI RAGARAJAN—INDIA

Application for Patent No. 72/Del/93 filed on 28.1.93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005

**3 Claims**

An improved process for the preparation of lithium manganese oxide useful as a cathode material which comprises forming an aqueous solution of manganese and lithium acetates in stoichiometric in the range of 200—300°C, thereafter at a temperature in the range of 600—800°C for a period in the range of 24—48 hours, leaching the lithium manganese oxide so formed in sulfuric acid at room temperature, filtering the solution, washing the residue with distilled water and drying in vacuum to get lithium manganese oxide



(Complete Specification : 6 Pages Drawing 3 Sheet)

Ind. Cl. : 45G<sub>1</sub> 185943

Int. Cl.<sup>4</sup> : E 03C—1/00.

### AN IMPROVED SELF CLOSING DEVICE FOR THE FLOW OF FLUIDS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor(s) : HARDYAL SINGH—INDIA, HARBIR SINGH TOOR—INDIA, RAJINDER SINGH—INDIA.

Application for Patent No. 75/Del/93 filed on 28.1.93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

#### 2 Claims

An improved self closing device for the flow of fluid, which comprises a non corrosive chamber (1) provided with a knob (2) at the top of one side of the body of the chamber, the said knob connecting with a rotatable horizontal shaft (3) housed inside the said chamber (1) by means of bushes (4 & 5) characterised in that the said shaft is connected to the said knob (2) through a one way clutch (6), spring (7) and cam (8) a radial cam (9) is rotatably connected to the said shaft (3), a stepped trigger pin (10) is connected to the said cam (9), the said pin (10) being held by a trigger lever (11), the said trigger pivoted in bushes (12 & 13) of the said cam (9) by means of a tension spring (14) which is hooked to a pin (15), the said pin (15) is attached to an eccentric lever (16), the said eccentric lever (16) is fixed to the extreme end of the said shaft (3) a trigger release pin (17) provided in the said chamber body, the said trigger release pin (17) is connected with a disc (18), the said disc also connected with a timing device (19B), a spring loaded valve (21) is provided to the said chamber, a manually operated mechanism is optionally provided to the said trigger lever (11), the said manually operated

mechanism consists of a horizontal moveable trip rod (27) attached to the bushes (12 & 13), a push button (28) is connected to the said trip rod

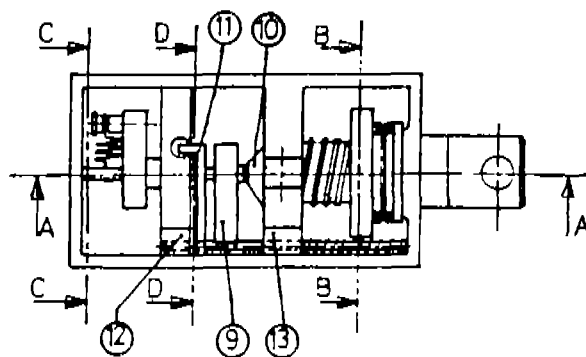


FIG.- 1

(Complete specification : 15 Pages Drawing 5 Sheets)

Ind Cl : 32F<sub>11</sub> 185944

Int Cl.<sup>4</sup> : C07c 51/245

### AN IMPROVED PROCESS FOR THE PREPARATION OF ADIPIC ACID

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : GIRENDRA NARAIN KULSRESTHA, UMA SHANKER, JAIPAL SINGH SARMA & JASVINDER SINGH.

Application for Patent No. 76/Del/93 filed on 28.1.93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

#### 5 Claims

An improved process for the preparation of adipic acid which comprises oxidising by known methods cyclohexane by air or oxygen in one step in the presence of preformed Co<sup>3+</sup> acetate as catalyst and 3 to 5 parts by wt. organic polar solvent such as C<sub>1</sub>—C<sub>4</sub> carboxylic acid and separating the adipic acid by known crystallisation methods

(Complete specification : 12 Pages Drawing Nil Sheets)

Ind. Cl. : 851 185945

Int. Cl.<sup>4</sup> : F23N, 1/00, F23L 3/00, F23R 3/32.

### A MULTI-NOZZLE COMBUSTION LINER CAP ASSEMBLY.

Applicant : GENERAL ELECTRIC COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF NEW YORK, AT 1 RIVER SIDE

SCHENECTADY, STATE OF NEW YORK 12345 UNITED STATES OF AMERICA.

Inventor(s) : DAVID ORUS FITTS—U.A.

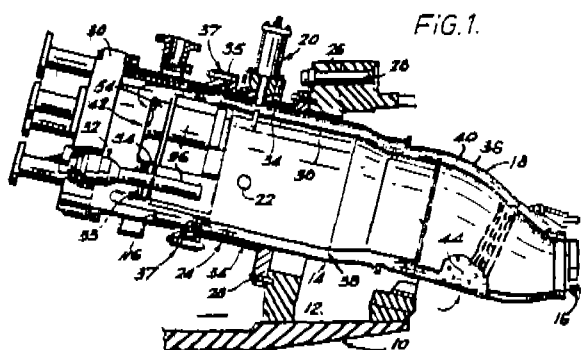
Application for Patent No. 92/Del/93 filed on 03rd Feb., 93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

### 23 Claims

A multi-nozzle combustor liner cap assembly for use in a gas turbine comprising :

- a cylindrical first having a rearward end and a forward end,
- a rear plate fixed to the rearward end of the said sleeve, said rear plate provided with a first plurality of openings for receiving a corresponding number of fuel nozzles,
- a forward plate sub assembly fixed to the forward end of said sleeve, said forward plate provided with a second plurality of openings in alignment with said first plurality of opening in said rear plate,
- a plurality of open-ended premix tubes having forward and rearward ends, said tubes extending axially within said sleeve between said rear plate and said forward plate assembly each premix tube supported within a corresponding one of said first plurality of opening at its rearward edge and a corresponding one of said second plurality of openings adjacent to its forward edge in a non-fixed relation thereto.



(Complete Specification : 26 pages Drawings 9 Sheets).

Ind. Cl. : 47C.

185946

Ind. Cl.<sup>4</sup> : F23Q—2/16.

AN IMPROVED GAS-FILLED LIGHTER DEVICE.

Applicant : CRICKET, A FRENCH COMPANY, OF 105 AVENUE DU 8 MAI 1945, 69140 RILLIEUX LA PAPE, FRANCE.

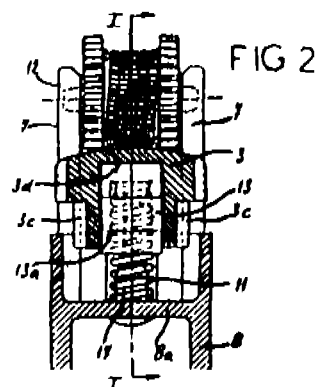
Inventor : RENE FRIGIERE—France.

Application for Patent No. 110/Del/93 filed on 10th Feb., 93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

### 11 Claims

An improved gas-filled lighter device having a mechanism for lighting, said mechanism comprising means for opening a burner valve (2) consisting of a tilting lever (3) articulated to a fixed pin (4) orthogonal to the axis (2') of said burner valve (2), one end (3a) of said tilting lever (3), in the form of a fork or ring being engaged under a collar (2a) of said burner valve (2) and the other end, or actuation end (3b) for actuation being supported by a return spring (11) axially parallel to the body (8), means for producing sparks being independent or combined with said tilting lever (3) for opening said burner valve (2); said tilting lever (3) consisting of a pusher (13) and means for ensuring that said pusher (13) is momentarily kept in a non obstructing position; another means being provided for returning said pusher to said active neutralization position, characterized in that said pusher (13) is slideably mounted against the lower face of said actuation end (3b) of said tilting lever (3), slideable between said active neutralization position in which said pusher is held supported against said actuation end (3b) of said tilting lever (3) by a part (8b) located above said body (8) of the lighter preventing movement of said tilting lever (3) in the direction to open said valve (2), and an advanced and non obstructing position, in which said part (8b) located above said body (8) is no longer in the described path of the pusher (13) in the direction of opening of said valve (2).



(Complete Specification : 21 Pages Drawing 4 Sheets)

Ind. Cl. : 107 I

185947

Int. Cl.<sup>4</sup> : F02M 7/00

AN AIR/FUEL CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE.

Applicant : ORBITAL ENGINE CO (AUSTRALIA) PT LTD., AN AUSTRALIAN CO, OF 1 WHIPPLE STREET, BALCATTA, WESTERNAUSTRALIA 6021, AUSTRALIA

Inventors : ROBERT MAX DAVIS, DARREN ANDREW SMITH AND IAN REGINALD THOMPSON (AUSTRALIA).

Application for Patent No. 117/Del/93 filed on 11.2.93.

Convention date 11.2.92 / (PLO790) / (Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

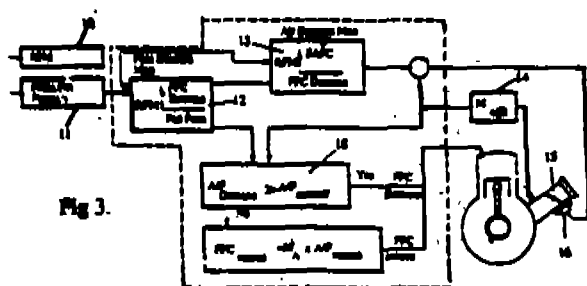
#### 10 Claims

An air/fuel control apparatus for controlling the mass of air and fuel delivered to an internal combustion engine per cylinder per cycle comprising :

an electronic control system (12, 13, 18) for determining the required amount of fuel per cycle for delivery to the engine in response to engine operating conditions,

an air intake controller (15, 16) for regulating the supply of air to the engine to provide a required air/fuel ratio for said determined amount of fuel per cycle at said engine operating conditions, and characterised by :

said electronic control system (12, 13, 18) having an air mass sensor (14) for determining the actual air supply to the engine and for providing control signals to a fuel supply controller to adjust the amount of fuel per cycle such that the actual air/fuel ratio obtained is within predetermined limits of the required air/fuel ratio.



(Complete Specification : 13 pages Drawing 1 sheet)

Ind. Cl. : 203 XXX VII(3)

185948

Int. Cl.<sup>4</sup> : B41F 1/28.

DEVICE FOR CONVEYING PRINTED SHEETS IN AN INSTALLATION FOR CHECKING THE QUALITY OF PAPER MONEY.

Applicant : DE L RUE GIORI S.A. 4, RUE DE LA PAIX, 1003 LAUSANNE, SWITZERLAND.

Application for Patent No. 135/Del/93 filed on 16th Feb., 93.

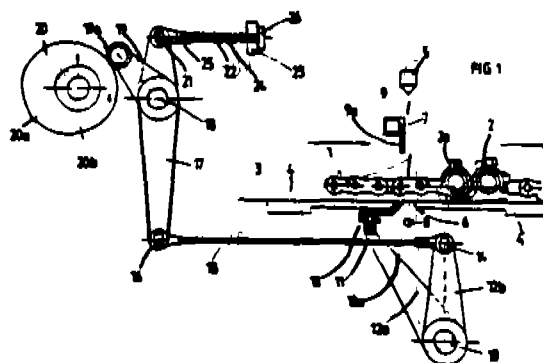
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110-005.

#### 8 Claims

A device for conveying printed sheets in an installation for checking the quality of paper money particularly bank

notes in a checking zone comprising at least one detector (5) characterized in that said device consists of

- a conveyor chain (1) equipped with bars having clamps (2, 2a) for grasping the front edge of the sheet to be checked and sliding it over support bars (4, 4') extending longitudinally in the direction of conveyance in a transfer plane,
- said clamps (2a) being partially engaged in the spaces between said support bars (4, 4'),
- support bars (4, 4') in the checking zone are fitted with holes forming suction nozzles (4a) along a line transverse to the direction of conveyance,
- movable arms (10) mounted in the spaces between the support bars (4) and fitted with a suction nozzle (10, a), said arms being linked to an actuating mechanism for moving them between an adjusted operating position in which the nozzles (10 a) of the arms (100) are aligned with the nozzles (4a) of said support bars (4) in order to hold the sheet to be checked in the transfer plane when passing through said zone and a withdrawn position below said plane when the clamps (2a) pass above the location of the arms (10) in order to avoid collision between said clamps (2a) and said arms (10).



(Complete Specification : 12 pages Drawings 3 Sheet)

Ind. Cl. : 145 B(A)

185949

Int. Cl.<sup>4</sup> : D 21C—3/00.

A PROCESS FOR THE PREPARATION OF A TRACING PAPER.

Applicant : COSMO FILMS LIMITED, AN INDIAN COMPANY OF 30, COMMUNITY CENTRE, SAKET, NEW DELHI-110017.

Inventor(s) : SHASHWAT MISHRA—INDIA, SUMIT KUMAR SHARMA—INDIA.

Application for Patent No. 140/Del/93 filed on 16th Feb., 93.

Complete Left After Provisional Specification filed on 7.3.94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005

#### 4 Claims

A process for the preparation of tracing paper which comprises in subjecting biaxially oriented polypropylene film to a corona treatment, characterized in that applying an absorptive or receptive coating of the coating solution comprising resins, precipitated silica, calcium carbonate, paratoluene sulphonic acid, orthophosphoric acid, plasticizers, solvents and levelling agent, said coating being provided by applying 1—5 gm/m<sup>2</sup> coating solution, on at least one side of said film, the coated film or substrate being subjected to the step of curing at a temperature of 60—150°C

(Provisional Specification 7 Pages Drawing Nil Sheet)

(Complete Specification 12 Pages Drawing Nil Sheet)

Ind Cl. : 195B 185950

Int. Cl.<sup>4</sup> : F 16K—21/04

#### SELF LOCKING WATER TAP

Applicant GULAB WADHWAN, an Indian National of 63 Samik Vihar, Pratampur, New Delhi-110034, India

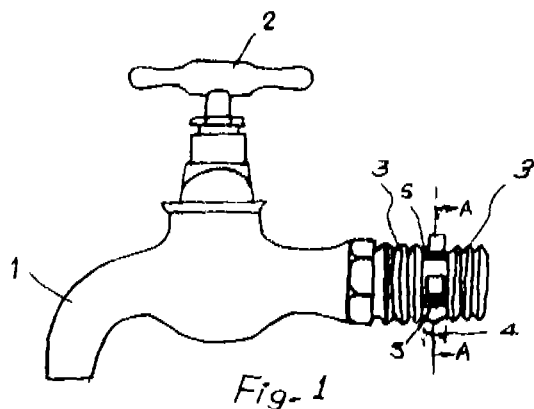
Inventor(s) GULAB WADHWAN—INDIA

Application for Patent No. 141/Del/93 filed on 16th Feb., 93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A self locking water tap comprising an elbow housing 1 with a cock 2 fitted therewith to facilitate supply of water to the user, characterised in that a flat surface 4 being provided at the threaded portion of the elbow housing 1 for accommodating self locking means provided for locking the water tap with the main supply pipe line, a leak-proof valve assembly consisting of a valve housing 9 and a cylindrical member



13 adapted to be secured with the main water pipe line and with the inlet end of the elbow housing 1 respectively being provided for facilitating the water supply to said elbow housing 1 from the main water pipe line

(Complete Specification 10 pages Drawing 1 Sheet)

Ind Cl. 32E 185951

Int Cl.<sup>4</sup> C 08F, 220/02

#### PROCESS FOR PREPARING LOW DENSITY POROUS CROSSLINKED POLYMERIC MATERIALS

Applicant SHELL OIL COMPANY, incorporated in Delaware of, 900 Louisiana Street, Houston, Texas 77002, United States of America

Inventor(s) THOMAS FAIRCHILD BROWNSCOMBE—U S A, WILLIAM PETER GERGEN—U S A, RONALD MARSHALL BASS—U S A, MARYANNE MORES—U S A, PUI KWANG WONG—U S A

Application for Patent No. 145/Del/93 filed on 16th Feb 93

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972), Patent Office Branch New Delhi 110 005

#### 13 Claims

A process for the preparation of a low density porous cross-linked polymeric material comprising the steps of

(a) providing a water-in-oil emulsion comprising

(i) a mixture of monomers comprising at least one vinyl monomer and from 2 to 70 weight percent based on the mixture, of a difunctional unsaturated cross-linking monomer

(ii) at least 90 weight percent, based on the emulsion of water as the internal phase, corresponding to a water to oil ratio of at least 9 : 1,

(iii) a conventional surfactant,

(iv) 0.005 to 15 weight percent of a conventional polymerization catalyst based on the polymerizable monomers and

(v) optionally, an electrolyte,

(b) subjecting the water-in-oil emulsion to a temperature of 20°C to less than 65°C to form a gel having a rheometrics dynamic shear modulus of at least 500 pascal, and

(c) heating the gel at a temperature of 70°C to 175°C, and if required under pressure, to polymerize and cross-link the monomers

(Complete Specification 38 Pages Drawing 1 Sheet)

Ind Cl. 35D 185952

Int Cl.<sup>4</sup> F23H 1/00, 17/00

#### GRATE COOLER FOR HOT BULK MATERIAL

Applicant KRUPP POLYSIUS AG, A GERMAN COMPANY, OF GRAF-GALEN-STR, 17, 4720 BECKUM, GERMANY

Inventors DETLEV KUPPER, GERHARD KASTINGSCHAFER and LUDGER BRENTRUP (German)

Application for Patent No 155/Del/93 filed on 18-2-93

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

#### 12 Claims

Grate cooler for hot bulk material, particularly for cement clinker, ore material or the like, containing a cooler grate surface (3, 3', 3'', 3''') which extends in the longitudinal direction between a cooler inlet (1a) and a cooler outlet, (1b), provides a transport surface for bulk material (4) to be cooled and has rows (3a, 3b) of fixed and reciprocating grate plates (5, 6) which at least partially alternate with one another, the said grate plates being provided with gas openings (11) through which cooling gas (7) flows upwards from below, characterized in that at least one discharge point (9, 10, 29) comprising at least one bulk material discharge opening (12, 30) is provided before the cooler outlet (1b) on the cooler grate surface (3, 3', 3'', 3''') wherein a bulk material shaft (13, 32) is provided below said discharge opening (12, 30) and wherein material quantity adjusting means (14, 34) are provided at said shaft (13, 32)

(Complete Specification 20 Pages Drawing 6 Sheet)

Ind Cl 32E 185953

Int Cl<sup>4</sup> C 08F, 2/32

#### A PROCESS FOR THE PREPARATION OF A POROUS CROSSLINKED POLYMERIC MATERIAL

Applicant SHELL OIL COMPANY, INCORPORATED IN DELAWARE OF, 900 LOUISIANA STREET, HOUSTON, TEXAS 77002, UNITED STATES OF AMERICA

Inventor(s) SHRON MARIE BESHOURI—U S A

Application for Patent No 166/Del/93 Filed on 23-2-93

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005

#### 16 Claims

A process for the preparation of a porous crosslinked polymeric material comprising the steps of

(a) providing a water-in-oil, emulsion comprising (i) a mixture of polymerizable monomers, such as herein described, comprising at least one vinyl monomer and from 2 to 50 weight percent, based on the total monomer mixture of a difunctional unsaturated crosslinking monomer, (ii) at least 90 weight percent, based on the emulsion, of water as the

internal phase, (iii) from 2 to 40 weight percent, based on the polymerizable monomers, of a surfactant, comprising (A) from 5 to 95 weight per cent, based on the surfactant, of asorbitan monoester having a fatty acid moiety of at least 6 carbon atoms and (b) at least one other sorbitan ester having at least one different fatty acid moiety than component (A), and (iv) a conventional polymerization catalyst, such as herein described, and

(b) heating said water-in-oil emulsion, at a temperature of from 25 to 90°C, to polymerize and crosslink the polymerizable monomers

(Complete Specification 23 Pages Drawing Sheet—Nil)

Ind Cl 40H

185954

Int Cl<sup>4</sup> C 07C 7/00

#### A PROCESS FOR THE SEPARATION OF AROMATIC HYDROCARBONS FROM A FEEDSTOCK

Applicant UOP, A COMPANY ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, U S A ITS PRINCIPAL OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, U S A

Inventor(s) PAULINO FORTE—US

Application for Patent No 177/Del/93 Filed on 26-2-93

Appropriate office for opposition proceedings (Rule 4 Patents Rule 1972) Patent Office Branch, New Delhi-110005

#### 11 Claims

A process for the separation of aromatic hydrocarbons from a feedstock comprising aromatic and non-aromatic hydrocarbons, said process comprising

(a) passing the feedstock, a lean solvent stream, and a recycle stream into an extraction zone operated at an extraction temperature of between 27 and 204°C and an extraction pressure of from 100 to 2850 kPa, effective to separate the feedstock into a raffinate stream comprising non-aromatic hydrocarbons, and a rich solvent stream comprising solvent, aromatic hydrocarbons, and non-aromatic hydrocarbons,

(b) passing the said rich solvent stream to a stripping zone, containing a first stripping section and a second stripping section, contacting the rich solvent stream with a stripping stream at stripping temperature of between 66 and 260°C and, a stripping pressure of between 67 to 446 kPa in the first stripping section, recovering a vapor stream and discharging a stripped rich solvent stream from the first section,

(c) separating the said vapor stream into a mixed hydrocarbon phase comprising non aromatic hydrocarbons and aromatic hydrocarbons and passing the said mixed hydrocarbon phase to the extraction zone as at least a portion of the recycle stream,

(d) passing the said stripped rich solvent stream to the said second stripping section and therein contacting the stripped rich solvent stream with a stripping stream and withdrawing a second vapor stream and a hot lean solvent stream,

(e) recovering an aromatic product stream from the said second vapor stream; and

(f) cooling at least a portion of the said hot lean solvent stream to produce the lean solvent stream by indirect heat transfer with the stripped rich solvent stream prior to passing the said stripped rich solvent stream to the said second stripping section.

(Complete Specification : 28 Pages Drawing : 3 Sheets)

Ind. Cl. : 32F<sub>1</sub> (a) + (d). 185955

Int. Cl.<sup>4</sup> : C07C 49/00.

**AN IMPROVED PROCESS FOR THE PREPARATION OF CITRONELLAL FROM CITRONELLA OIL.**

**Applicant :** COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

**Inventor(s) :** KEDAR PRASAD SINGH.

**Application for Patent No.** 190/Del/93. filed on 3-3-93.

**Complete left after provisional specification filed on** 7-5-93.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.**

**2 Claims**

An improved process for the preparation of citronellal from citronella oil which comprises fractionating citronella oil in a fractionating tower at least at a pressure of 0.1 mm Hg at a temperature in the range of 35 to 170°C depending on the pressure employed at a reflux ratio between 0.50 to 6.0 or even more, recovering the fractions of citronellal coming out of the fractionator at various temperature and pressure specified above and finally blending all these fractions to get citronellal.

(Provisional Specification : 10 Pages Drawing Sheet—Nil)  
(Complete Specification : 12 Pages Drawing Sheet—Nil)

Ind. Cl. : 32 E. 185956

Int. Cl.<sup>4</sup> : C08F 216/00

**A PROCESS FOR MAKING BLOCK POLYMERS OF CONJUGATED DIENES CONTAINING ALCOHOL UNITS IN THE DIENE BLOCKS.**

**Applicant :** SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS, A COMPANY ORGANIZED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

**Inventor(s) :** ROBERT CHARLES BENING—U.S.A., JAMES ROBERT-ERICKSON—U.S.A., CHARLES JOHN STARK—U.S.A., DAVID JOHN ST. CLAIR—U.S.A.,

**CARMA JOLEEN GIBLER—U S A & JOE JERRY FLORES—U S A**

**Application for Patent No** 0233/Del/93 filed on 11-03-93.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005**

**14 Claims**

A process for making block polymers of conjugated dienes containing 0.1 to 15 meq/g polymer of hydroxyl groups in the diene blocks, said process comprises the steps of —

(a) making a precursor polymer by polymerising at least one conjugated diene which leaves 1, 2 disubstituted, 1, 1 disubstituted, 1, 1, 2 trisubstituted or tetrasubstituted olefinic unsaturation in the polymer.

(b) epoxidizing said precursor polymer until the amount of epoxide functionality in the polymer is at least 0.1 meq/g polymer,

(c) optionally hydrogenating the precursor polymer of step (a) or the epoxidized polymer of step (b), and

(d) contacting the epoxidized, optionally hydrogenated, polymer at a temperature of from 20°C to 200°C with an alcohol having one unprotected hydroxyl group and a catalyst which is either HX or a compound or organic complex of MX<sub>n</sub>, optionally in the presence of a solvent, wherein M is selected from the group consisting of boron, aluminium, iron and tin; X is a halogen; and n is an integer corresponding with the valence of the metal M, and the molar ratio of catalyst to epoxy is from 0.1 : 1 to 1 : 1, and epoxy to alcohol is from 1 : 15 to 1 : 25.

(Complete Specification : 59 Pages Drawing Sheet—Nil)

Int. Cl.<sup>4</sup> : F04B 39/10

185957

Ind. Cl. : 6A<sub>2</sub> & 1

**AN ANNULAR VALVE FOR A PISTON COMPRESSOR**

**Applicant :** MASCHINENFABRIK SULZER BURCKHARDT AG, A SWISS COMPANY, OF DORNACHERSTRASSE 210, CH-4002 BASEL, SWITZERLAND

**Inventor** MARKUS LEHMANN (SWISS)

**Application for Patent No** 258/Del/93 filed on 17-3-93

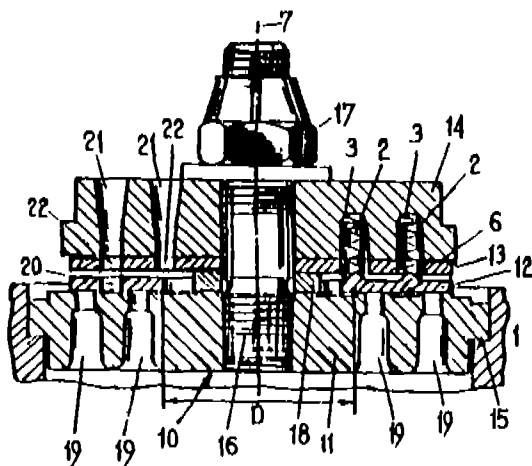
**Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.**

**10 Claims**

An annular valve (10) for a piston compressor, having a valve seat (11), an absorber (14) attached at a distance thereto at least one annular sealing element (12) movable between

the valve seat (11) and the absorber (14) wherein a helical spring (2) acting between the absorber (14) and the sealing element (12) moves the sealing element (12) in the closing direction to the valve seat (11) and wherein the helical spring (2) is attached at its one end in the absorber (14) characterised in that at least three helical spring (2) are provided distributed over the periphery of the sealing element (12) and in that the side faced towards the absorber (14) the sealing element (12) comprises depressions (4) or knob-shaped projections (5, 6) which are in engagement with the other end of the helical springs (2) so that the helical springs (2) cannot be laterally displaced with this end on the sealing element (12)

FIG. 1



(Complete Specification : 10 Pages Drawing 2 Sheets)

Ind. Cl. : 40F.

185958

Int. Cl.<sup>4</sup> : B 01D 59/30.

#### AN IMPROVED PROCESS FOR THE ISOLATION OF ISOBUTENE FROM C<sub>4</sub> HYDROCARBON MIXTURE

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor(s) : GURSHARN SINGH GROVER—INDIA, CHANDRASHEKHAR VASANT RODE—INDIA and RAGHUNATH VITHAL CHAUDHARY—INDIA.

Application for Patent No. 278/Del/93 filed on 23-3-93

Complete left after provisional specification filed on 20-9-93.

Appropriate office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An improved process for the isolation of isobutane from C<sub>4</sub> hydrocarbons mixture by catalytic oligomerisation which comprises continuously passing a gaseous stream of C<sub>4</sub> hydrocarbon fraction containing isobutane through a pretreated cation exchange resin catalyst at a temperature in

the range of 30-120° at atmospheric pressure to obtain isobutane

(Provisional Specification 11 Pages Drawing Sheets—Nil)

(Complete Specification 20 Pages Drawing Sheets—Nil)

Ind. Cl. : 40F

185959

Int. Cl.<sup>4</sup> : C 23C 18/50

#### AN IMPROVED PROCESS FOR THE PREPARATION OF PLATINISED NIOBIUM SUBSTRATE

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT

Inventor(s) MALATHY SUSHPAVANAM—INDIA SANNANALLUR RAMACHANDRAN—INDIA

Application for Patent No. 281/Del/93, filed on 23-3-93

Complete left after Provisional Specification filed on 20-1-94

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved process for the preparation of platinumised niobium substrate which comprises etching niobium substrate in a solution consisting of (1) concentrated hydrochloric acid 300—700 ml/l (2) 40% v/v hydrofluoric acid up to 350 ml/l (3) organic carboxylic acid upto 102 g/l and balance water to make 1 liter, for a period of 30—180 minutes at a temperature in the range of 25 to 45°C washing thoroughly, then plating platinum using a bath containing 5—10 g/l platinum for 30—120 minutes, current density of 0.5 to 2.0 A/dm<sup>2</sup> at 30—60°C and P<sup>H</sup> 1.0 to 12.0 to obtain platinumised niobium substrate

(Provisional Specification 5 Pages Drawing Sheet—Nil)

(Complete Specification 8 Pages Drawing Sheet—Nil)

Ind. Cl. 62E

185960

Int. Cl.<sup>4</sup> : B 29C 67/20.

#### AN IMPROVED PROCESS FOR THE MANUFACTURE OF SYNTHETIC SPONGE BASED ON CELLULOSE

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor : KULDEEP KUMAR KAUL—INDIA

Application for Patent No. 296/Del/93 filed on 24.3.93

Complete left after Provisional Specification filed on 30.9.93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

An improved process for the manufacture of synthetic sponge based on cellulose, which comprise;

- (a) incorporating 0.1 to 10 parts of blowing agent having a dissociation point in the range of 40 to 250°C, 1 to 20 parts of cotton linter pulp and 100 to 1500 parts of an inorganic salt the melting point of which is close to the dissociation temperature of the above said blowing agent into 100 parts of the derivatised pulp,
- (b) kneading the resultant mixture thoroughly and regenerating the cellulose from the kneaded mixture by conventional acid or heat treatment followed by washing to remove the dissolved salts from the mixture to get the sponge.

(Provisional Specification : 9 Pages. Drawing Sheet—Nil).

(Complete Specification : 10 Pages. Drawing Sheet—Nil)

Int. Cl.<sup>4</sup> : B23 K26/02

185961

Ind. Cl. : 73.

A METHOD FOR FORMING A TOPOGRAPHICAL SUPPORT MEMBER FOR PRODUCING A NONWOVEN FABRIC AND AN APPARATUS THEREOF.

Applicant : MCNEIL-PPC, INC. OF VAN LIEW AVENUE, MILLTOWN, NJ 08850, UNITED STATES OF AMERICA.

Inventor : JAMES WILLIAM A., KELLY WILLIAM G.F.

Application No. 1036/Cal/95 filed on 29.8.95

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

#### 12 Claims

A method for forming a topographical support member (2) for producing a nonwoven fabric comprising the steps of

- (a) providing a workpiece,
- (b) focusing a laser beam (36) such that focal point is below the top surface (3) of said workpiece, and
- (c) drilling with said laser beam (36), a predetermined pattern of tapered apertures (7) through said workpiece (2) thereby forming an array of peaks (5) and valleys (6) surrounding each aperture (7) on the top surface (3) of the resulting support member (2)

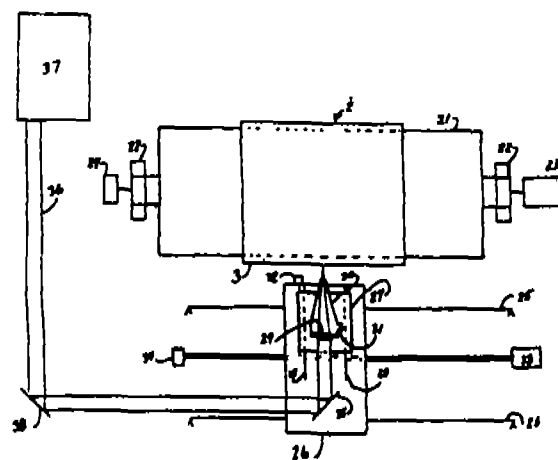


FIG 4

(Specification : 28 Pages.

Drawings 10 Sheets)

Int. Cl.<sup>4</sup> : F 26 B 5/04.

185962

Ind. Cl. 145B.

A METHOD OF PRODUCING A PAPER WEB WITH REDUCED MOISTURE CONTENT AND APPARATUS THEREOF.

Applicant : KIMBERLY-CLARK WORLDWIDE, INC. OF 401 NORTH STREET, NEENAH, WISCONSIN 54956, U.S.A.

Inventor : 1. STRONG C. CHUANG. 2. KENNETH KAUFMAN. 3. ROBERT H. SCHIESSER

Application No. 1395/Cal/95 filed on 6.11.95

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

## 11 Claims

A method of producing a paper web with reduced moisture content comprising the steps of

- supporting the web on an air-permeable fabric,
- lightly pressing the web between the air-permeable fabric and a capillary membrane of a capillary dewatering roll that has pores defined therein that are configured to induce a negative capillary suction pressure, and
- drawing a vacuum within the capillary dewatering roll, the vacuum being not greater than the negative capillary suction pressure of the capillary pores

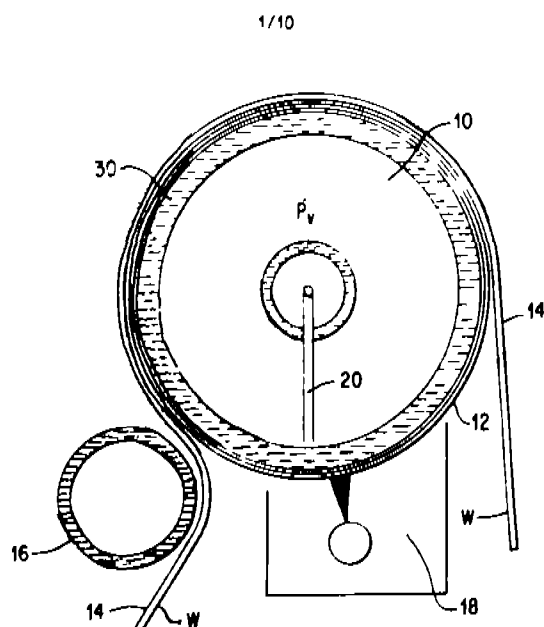


FIG. 1

(Specification : 36 Pages.

Drawing 10 Sheets)

Ind. Cl.<sup>4</sup> : C07C—1/04, 1/12

185963

Ind. Cl : 32F,C

**A PROCESS FOR PRODUCTION OF METHANOL OR DERIVATIVES THEREOF.**

Applicant : STARCHEM INC OF 10822 FAWNVIEW DRIVE, HOUSTON, TEXAS 77070, UNITED STATES OF AMERICA.

INVENTOR . CHRISTIAAN P VAN DIJK

Application No. 1405/Cal/95 filed on 6 11 95

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

3—77 GI/2001

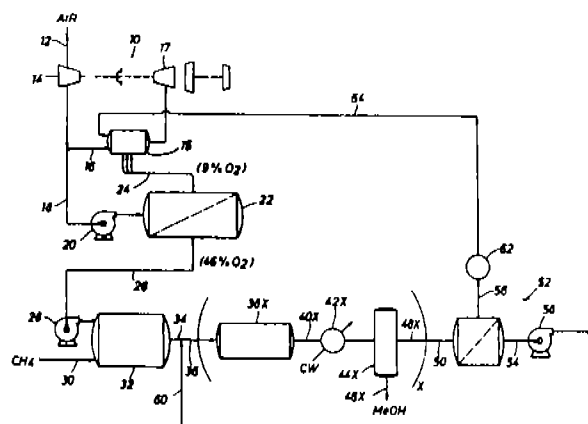
## 10 Claims

A process for production of methanol or derivatives thereof comprising the steps of

partially oxidizing natural gas with an oxidant stream to form a synthesis gas containing  $H_2$ , CO and  $CO_2$  in a ratio of  $(H_2)/(2CO+3CO_2)$  less than 1.0,

mixing the synthesis gas with a hydrogen rich gas stream obtained from a gas stream remaining after completion of methanol recovery by diffusion thereof through a semipermeable membrane preferential for permeation of  $H_2$  in preference to  $N_2$ , said hydrogen rich gas stream being in an amount that provides a mixed gas stream containing  $H_2$ , CO and  $CO_2$  in a ratio of  $(H_2)/(2CO+3CO_2)$  which is greater than that of the synthesis gas,

passing said mixed gas stream through a series of methanol reactors with conversion catalyst for recovery of methanol from said mixed gas stream after each methanol reactor to form after the last methanol reactor a gas stream from which the hydrogen rich gas stream is obtained by diffusion



(Specification 40 Pages

Drawings 1 Sheets)

Int Cl<sup>4</sup> F25J—3/06, 3/62

185964

Ind Cl 40H

**A PROCESS AND APPARATUS FOR THE SEPARATION OF A GAS STREAM**

Applicant ELCOR CORPORATION OF WELLINGTON CENTRE, SUITE 1000, 14643 DALLAS PARKWAY, DALLAS, TEXAS 75240, UNITED STATES OF AMERICA

Inventor 1 ROY E CAMPBELL, 2 JOHN D WILKINSON, 3 HANK M HUDSON

Application No. 1401/Cal/95 filed on 6.11.95.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

### 32 Claims

A process (Figs. 4 or 5) for the separation of a gas stream (21) containing methane  $C_2$  components  $C_1$  components and heavier hydrocarbon components into a volatile residue gas fraction (29 in Fig. 4, 29b in Fig. 5) and a relatively less volatile fraction (30b) containing said  $C_2$  components,  $C_1$  components and heavier hydrocarbon components or said  $C_1$  components and heavier hydrocarbon components, comprising the steps of :

said gas stream is cooled (10, 10a, 11, 12, 13) under pressure to provide a cool stream (21a);

said cooled stream is expanded (16, 17) to a lower pressure whereby it is further cooled; and

said further cooled stream is fractionated at said lower pressure whereby the major portion of said  $C_2$  components,  $C_1$  components and heavier components is recovered in said relatively less volatile fraction;

the improvement wherein said gas stream is cooled sufficiently to partially condense (15) it; and

said partially condensed gas stream is separated thereby to provide a vapor stream (24) and a condensed stream (28);

said vapor stream is thereafter divided into gaseous first (25) and second streams (26);

said gaseous first stream (25) is combined with at least a portion of said condensed stream to form a combined stream and said combined stream is cooled to condense substantially all of it and is thereafter expanded to said lower pressure whereby it is further cooled;

said expanded cooled combined stream is thereafter supplied at a first mid-column feed position to a distillation column in a lower region of a fractionation tower (19);

said gaseous second stream is expanded to said lower pressure and is supplied to said distillation column at a second mid-column feed position;

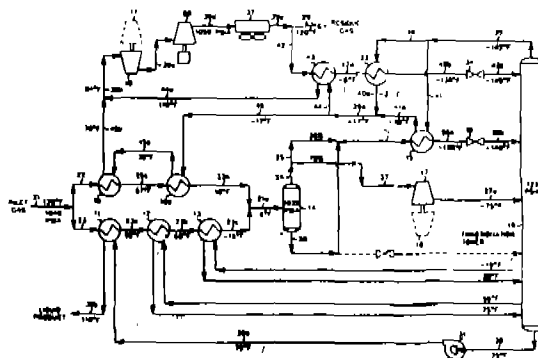
a distillation stream is withdrawn from an upper region of said tower and is warmed;

said warmed distillation stream is compressed to higher pressure and thereafter divided into said volatile residue gas fraction and a compressed recycle stream;

said compressed recycle stream is cooled sufficiently to substantially condense it;

said substantially condensed compressed recycle stream is expanded to said lower pressure and supplied to said fractionation tower at a top feed position; and

the quantity and pressure of said compressed recycle stream and the quantities and temperatures of said feed streams to the column are effective to maintain tower overhead temperature at a temperature whereby the major portion of said  $C_2$  components,  $C_1$  components and heavier hydrocarbon components is recovered in said relatively less volatile fraction.



(Complete Specification 60 Pages. Drawings 10 Sheets)

Int. Cl.<sup>4</sup> : B 07 B.

185965

Ind. Cl. : 167.

METHOD OF MANUFACTURE OF ALUMINIUM OXIDE POWDER FROM PRIMARY ALUMINIUM OXIDE AND A STRIPPING DEVICE THEREOF.

Applicant : ABB FLAKT AB. OF SICKLA ALLE 13, NACKA, S-120 86 STOCKHOLM, GERMANY.

Inventor : DR. LOTHAR SCHUH & DR. HELGE JANSEN.

Application No. 1674/Cal/95 filed on 19-12-95.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

### 2 Claims

Method of manufacture of aluminium oxide powder (25) from primary aluminium oxide, by removing impurities (35) which adhere to the surface of powder particles comprising the steps of :

(a) the primary aluminium oxide (25) with particulate impurities (35) is introduced into the stripping device (2) and is directed against a surface of the impact blade (2P)

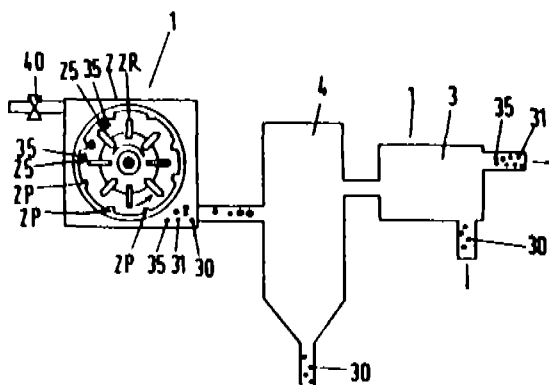
(b) and with the aid of the striking mechanism (2R) of said stripping device (2), said aluminium oxide powder (25) is directed with a speed of 20 to 30 m/s against impact blades (2P) rotating in opposite direction to the striking mechanism (2R),

(c) the particles of the purified aluminium oxide powder (30) having a size of  $>10\ \mu\text{m}$  are separated from the purified aluminium oxide powder (31) having a size  $<10\ \mu\text{m}$  and the impurities (35) with the aid of an air sifter (3) and/or a cyclone (4),

(d) purified aluminium oxide powder (30) having a size of  $>10\ \mu\text{m}$  are then fed to a smelting electrolysis for the production of aluminium,

(e) and the aluminium oxide powder (31) having a size  $<10\ \mu\text{m}$  and the impurities (35) are fed to a tip or are further processed as raw material

Fig 2



(Complete Specification 11 Pages Drawings 4 Sheets)

Int Cl<sup>4</sup> . B 62 D 9/02

185966

Ind Cl. . (LII)—132 D

A SELF-BALANCING VEHICLE WITH AT LEAST THREE WHEELS

Applicant BRINKS WESTMASS B V OF GROTE RIETHURE 10, NL-3273 LC WESTMASS, THE NETHERLANDS.

Inventors 1 VAN DEN BRINK, CHRISTOPHER RALPH, 2. VAN DEN BRINK, ANTHONIE 3 KROONEN, HENDRIK MARINUS

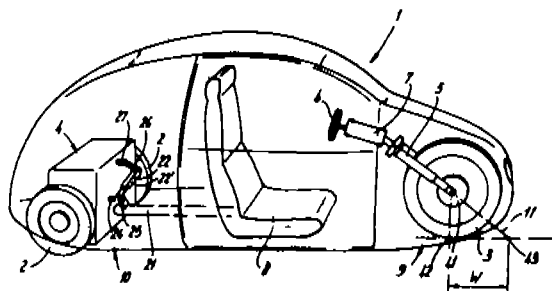
Application No 1682/Cal/95 filed on 20-12-95

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

## 19 Claims

A self-balancing vehicle with at least three wheels resting on the ground, at least two of which wheels (2) are arranged on either side of the centre of gravity with respect to the longitudinal axis of the vehicle, and at least one of which wheels (3) is directionally controllable, and wherein at least one section of the vehicle (9) is tiltable about the longitudinal axis of the vehicle and a sensor (7) for the measuring the magnitude and/or the direction of the load, for the purpose of producing and/or maintaining a change in direction of the directionally controllable wheel (3) during travel and/or for measuring the magnitude and/or the direction of a change in direction of the directionally controllable wheel (3) during travel is connected to a control element for controlling the at least one directionally controllable wheel (3), and a power assisted tilt element is provided for tilting said vehicle section about the longitudinal axis of the vehicle, which tilt element is connected to the sensor (7), in order to produce a tilt as a function of the registration by the sensor (7)

Fig-1



(Complete Specification 27 Pages Drawings 11 Sheets)

Int. Cl<sup>4</sup> A 47 K 10/32

185967

Ind Cl 23 B, H

A DEVICE FOR DISPENSING A CORELESS ROLL OF AN ABSORBENT CONSUMER PAPER PRODUCT

Applicant KIMBERLY-CLARK WORLDWIDE INC OF 401, NORTH STREET, NEENAH, WISCONSIN 54956, UNITED STATES OF AMERICA

Inventors 1 NATHAN D BLOCH, 2 JOSEPH MITCHELL, 3 EDWARD J. O'BRIEN, 4 BRUCE M GEMMELL 5. RICHARD D KLEY

Application No 1722/Cal/95 filed on 26-12-95

(Convention No 08/395, 327 filed on 28-2-95 in U S A )

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

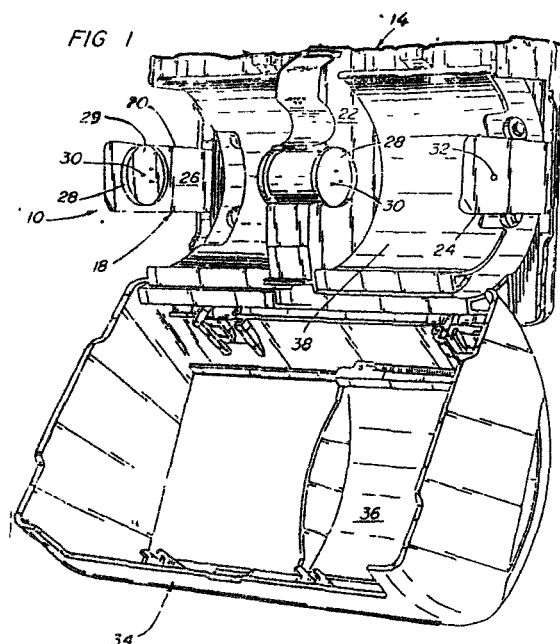
## 24 Claims

A device for dispensing a coreless roll of an absorbent consumer paper product such as toilet tissue comprising :

a frame (14);

mounting means (16) for permitting the frame to be mounted to a stationary surface such as wall; and

coreless roll securing means (18, 78) for securing a coreless roll of toilet tissue for rotation within the frame, said coreless roll securing means comprising at least one projection that is constructed and arranged to penetrate into the coreless roll between adjacent layers of the coreless roll so as to prevent radial displacement of the coreless roll with respect to said frame during use, whereby an ecologically responsible coreless roll of absorbent paper product can be dispensed without fear of radial displacement as confidently as a conventional cored roll of product can be.



(Complete Specification 15 Pages. Drawings 5 Sheets).

Int. Cl.<sup>4</sup> : F 25 D 31/00.

185968

Ind. Cl : 50-F.

#### AIR TREATMENT APPARATUS.

Applicant : FRIGOSCANDIA EQUIPMENT AB OF BOX 913 (RUSTHALLSGATAN 21), S-251 09 HELSINGBORG, SWEDEN.

Inventor : SVEN-OLLE ROTHSTEIN.

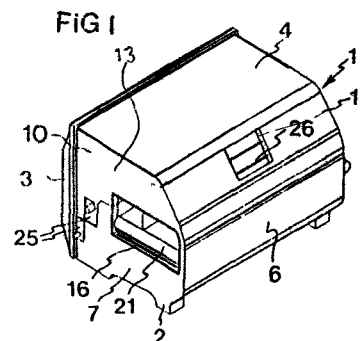
Application No. 282/Cal/96 filed on 16-2-96.

(Convention No. 9500688.8 on 23-02-95 in Sweden).

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 10 Claims

An air treatment apparatus comprising a housing (1) which includes an elongate trough (18) for receiving products that are to be air-treated, a heat-exchanging battery (22) for conditioning the air used in the air treatment, and a fan assembly (24) for generating an air flow which, for the purposes of the air treatment, circulates along a closed path that, apart from the fan assembly, extends up through the elongate trough and through the heat-exchanging battery, characterised in that the housing (1) has a casing comprising three elements (2-4) which are pivotable in relation to each other about axes (9, 15) parallel to a longitudinal direction of the elongate trough (18) and which are made up of a one-piece lower element (2) supporting the elongate trough, the heat-exchanging battery (22) and the fan assembly (24), a one-piece rear element (3), preferably of dome shape, forming a first side wall and being pivotable about a horizontal shaft (9) at the upper edge thereof so as to provide access to the heat exchanging battery (22) and the fan assembly (24) from outside the casing, and a one-piece upper element (4), preferable of a hood-like shape, forming the top (10) of the casing as well as at least one upper portion (11) of a second side-wall, and being pivotable about the axis of horizontal shaft (15) fixed to the lower element (2) so as to provide access to the elongate trough (18) from outside the casing.



(Complete Specification 8 Pages.

Drawings 3 Sheets)

Int. Cl.<sup>4</sup> : F 16 L 3/14.

185969

Ind. Cl. : LXIV-76B.

#### LEVER TYPE CLAMP STRUCTURE.

Applicant HANS OETIKER AG MASCHINEN UND APPARATEFABRIK OF OBERDORFSTRASSE 21, CH-8812 HORGEN, SWITZERLAND.

Inventor : OETIKER HANS.

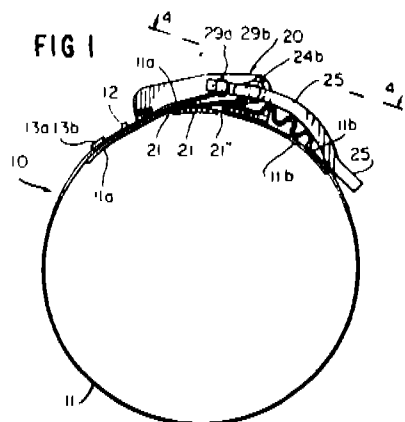
Application No. 352/Cal/96 filed on 27-2-96.

(Convention No. 08/396, 255 filed on 1-3-95 in U.S.A.)

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

## 16 Claims

A lever type clamp structure, comprising clamping band means (11, 11', 30, 40, 11', 60), a lever type band tightening closure mechanism (20, 120) comprising a relatively fixed part (21, 22a, 22b, 121, 122a, 122b) and a lever part (25, 125) relatively movable with respect to said relatively fixed part, said relatively fixed part having a base portion (21, 121) and two side wall portions (22a, 22b, 122a, 122b) integral with extending upwardly from said base portion at substantially right angle, said base portion being provided with two slots (21', 21'', 122', 122'') extending transversely to the longitudinal direction of the clamping band means, said lever part having two leg portions (25a, 25b) defining an elongated opening (28) interrupted intermediate its ends by a transversely extending cross web (27), two mutually oppositely and outwardly directed pivot members (26a, 26b) in the area of the open end of said elongated opening (28) which are adapted to pivotally engage in corresponding pivot openings (29a, 29b) in said side wall portions, one end section (11b, 41b, 61a) of said clamping band means comprises tolerance compensating undulation means (17, 42, 64) and said one end section (11b, 41b, 61a) extends through one (21'', 122') of said slots from above, said undulation means (17, 42, 64) being so located in said end section (11b, 41b, 61a) that when the end section is bend back upon itself, the undulation means are covered from below by the remaining underlying end section (11b' 41B, 61b) of said clamping band means



(Complete Specification 25 Pages Drawings 3 Sheets)

Int. Cl<sup>4</sup>. A 61 K 35/78 185970

Ind. Cl 55 E<sub>4</sub>

#### A PROCESS FOR PREPARING A HERBAL COMPOSITION FOR THE TREATMENT OF HYPERTENSION

Applicant ABDUL MUEED OF 1-A, SANDAL STREET, CALCUTTA-700016 INDIA

Inventor ABDUL MUEED

Application No. 815/Cal/99 filed on 29-9-99

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta

## 7 Claims

A process for preparing a herbal composition for the treatment of hypertension comprising the steps of

— separately preparing extracts of the herbal ingredients of Rauwolfia serpentina, Juniper communis Zeamays stigma Cicer arietinum husk, Hordeum vulgare Shora kalmi in a solvent, alcohol or water

— concentrating and drying the said extracts by heating, or in any other conventional manner

— mixing the extracts in following proportions

Ingredients	Quantity by parts
Rauwolfia serpentina	50-75 mg
Juniper communis	0.5-1.5 mg
Zeamays stigma	40-60 mg
Cicer arietinum husk	45-65 mg
Hordeum vulgare	20-35 mg
Shora kalmi	1.5-2.5 mg

if desired homogenizing in any known manner the said composition to ensure uniformity and therapeutic value of the composition and adding predetermined quantity of filler and binders

(Complete Specification 13 Pages Drawings Sheet—Nil)

Ind Cl 129 O 185971

Int Cl<sup>4</sup> B 26 F 1/00

#### AN IMPROVED ON LINE HOT MARKING SYSTEM FOR BILLET MILL PRODUCTS

Applicant STEEL AUTHORITY OF INDIA LTD RESEARCH & DEVELOPMENT CENTRE FOR IRON & STEEL, DORANDA, RANCHI, HAVING ITS REGISTERED OFFICE AT ISPAT BHAWAN, LODI ROAD NEW DELHI-110003

Inventors RAVI RANJAN PRASAD—INDIA BASUDEO ROY—INDIA & SUDHAKAR JHA—INDIA

Application for Patent No 148/Del/92 filed on 21-2-92

Complete left after provisional filed on 23-9-92

Appropriate office for Opposition Proceeding (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi 5

## 3 Claims

An improved on-line hot marking system for billet mill products, the system being capable of marking the products without the need for stopping their motion and characterised in that the system comprises a pendulum 4 having the marking head 5 fitted with a damping mechanism and a cassette containing the letters to be marked on the billets or blooms 6

carried over a motorised run-out roller table 3 in the direction of the pendulum and at a level to be struck by the marking head, the pendulum being freely swingable over the roller table in a vertical plane by means of the arm 1 rotatably held in a horizontal plane in the vertical structure 2, the said components of the system being arranged to operate in an inter-dependent manner.

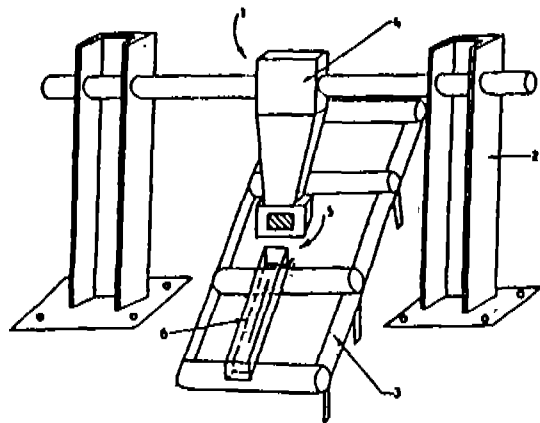


FIG. 1

(Provisional Specification 10 Pages. Drawings 2 Sheets).

(Complete Specification 13 Pages. Drawings Sheet—Nil).

Ind. Cl. : 40I

185972

Int. Cl.<sup>4</sup> : C 07C, 55/00.

**A PROCESS FOR THE PREPARATION OF A COLOUR DETECTION TEST STRIP USEFUL FOR THE DETECTION OF BUTTER YELLOW, A TOXIC ADULTERANT, IN EDIBLE OILS.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventors : SUBHASH KUMAR KHANNA—INDIA, MUKUL DAS—INDIA & PRASANTA KUMAR RAY—INDIA.

Application for Patent No 309/Del/92 filed on 8-4-92.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for the preparation of a colour detection test strip useful for the detection of Butter, yellow, a toxic adulterant, in edible oils which comprises impregnating by known methods a filter paper having appropriate dimensions with a solution of an organic acid selected from maleic acid, oxalic acid, tartaric acid, citric acid, and succinic acid in the concentration range of 0.43 to 5N, removing the said strip from the solution and drying the paper at room temperature.

(Complete Specification 8 Pages.

Drawing 1 Sheet).

Ind. Cl. : 129

185973

Int. Cl.<sup>4</sup> : C22 C, 31/28

**AN IMPROVED PROCESS TO OBTAIN AT LEAST ONE METALLIC PHASE FROM A PHASE MIXTURE.**

Applicant : BERND KOS. OF ENDRESGASSE 11, A-8700 LEOBEN, AUSTRIA AND HARALD MARHOLD. OF STOLLENWEG 11/10, A-8700 LEOBEN, AUSTRIA.

Inventor(s) : BERND KOS—AUSTRIA & HARALD MARHOLD—AUSTRIA.

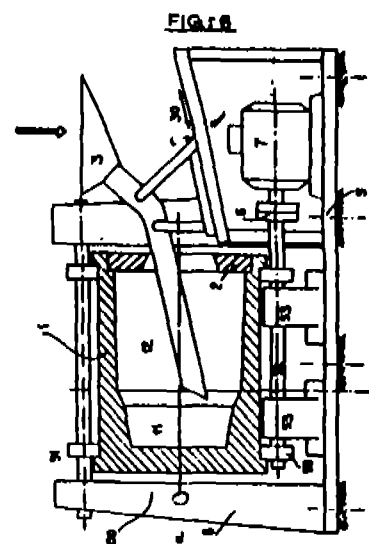
Application for Patent No. 0597/Del/92 filed on 10-07-92.

Appropriate Office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch, New Delhi-110005

18 Claims

An improved process to obtain at least one metallic phase of the kind such as herein described from a phase mixture constituting said at least one metallic phase and at least one non-metallic phase, said phase mixture being one of slag, salt slag, dross, residues and wastes, said method comprising centrifuging said phase mixture in a centrifuge mould so as to cause said metallic phase to be radially dispersed while heating said mixture within a temperature range which is above the melting temperatures or melting ranges of the metallic phases, characterized in that,

(i) in a batch-wise separation, in a first process phase, the metal/non-metal phase mixture is fed into said centrifuge mould, heating at least once to a temperature within the melting temperature range of the metallic phase to be separated and maintaining said melting temperature while radially accelerating said melted metallic phase at least a force of 10 g until a required degree of de-metallisation of said phase mixture is achieved and that,



(ii) in a second process phase maintaining the radial acceleration and lowering said temperature whereby the metal-

lic phase that has separated from said phase mixture solidifies and is easily removed from the periphery of the mould after being brought to handling temperature as at least one body whose outer surface corresponds essentially to the shape of the inside of the mould.

(Complete Specification : 21 Pages. Drawings 4 Sheets)

Ind. Cl. : 40B.

185974

Int. Cl.<sup>4</sup> : C04B—33/00.

#### A PROCESS FOR THE PREPARATION OF NEW CERAMIC SUBSTRATES USEFUL FOR THE PREPARATION OF SUPERCONDUCTING FILMS

**Applicant :** COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

**Inventor(s) :** PROF. JACOB KOSHY—INDIA, JIJIMON KUMPUKKATTU THOMAS—INDIA, JOSE KURIAN—INDIA, DR. YOGENDRA PRASAD YADAVA—INDIA & DR. ALATHOOR DAMODARAN—INDIA.

Application for Patent No. 1274/Del/92 filed on 31st Dec., 92.

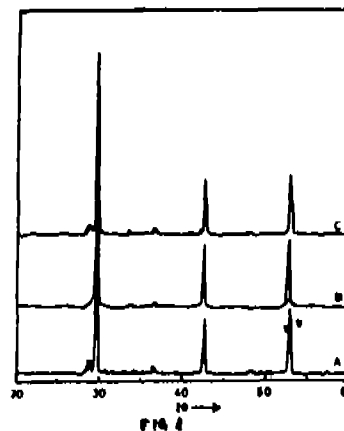
Complete left after Provisional Specification filed on 29.06.93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A process for the preparation of new ceramic substrate of the formula  $REBa_2MO_6$  where RE represents rare earth metals and M represents metals like Nb, Sb, Sn, Hf, Zr, useful for the preparation of superconducting films which comprises,

- (i) reacting salts of the rare earth metals such as oxides, nitrates, carbonates, barium and Nb, Sn, Sb, Hf or Zr in an organic medium such as alkanol, acetone.
- (ii) Pressing the resultant mixture in the form of pellets.
- (iii) Calcining the pellets by heating at a temperature in the range of 1000°C to 1200°C to form a highly homogeneous mixture.
- (iv) grinding the calcined material and forming into a substrate at a pressure in the range of 3 to 6 tones/cm<sup>2</sup> and sintering at a temperature of 1200 to 1600°C to obtain desired substrate.



(Provisional Specification : 6 Pages Drawing Sheets-(04)

(Complete Specification : 12 Pages Drawing Sheets-(6)

Ind. Cl. : 88D

185975

Int. Cl.<sup>4</sup> : F17D 3/00, 3/12

#### ADDITIVE INJECTOR APPARATUS

**Applicant :** THE LUBRIZOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092—2298, U.S.A.

**Inventor(s) :** ALFRED PATRICK HAYDEN—U.S.A. PATRICK LAWRENCE HAYDEN—U.S.A., CHARLES MAURICE MILLER—U.S.A.

Application for Patent No. 25/Del/93 filed on 12.1.93

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch, New Delhi-110005

#### 3 Claims

An additive injector apparatus for injecting a controlled amount of a first fluid into a main stream of a second fluid, characterized in that the additive injector apparatus comprises :

an explosion-proof housing (60) having a window (63) through which is transmittable electromagnetic energy encoded with information;

a first fluid flow line (23) for passage of the first fluid to a flow passage for the second fluid;

a valve (24) for controlling the flow of the first fluid through the first fluid flow line (23), and

electronic means (58) for controlling the apparatus, the electronic means (58) being contained within the housing (60) and comprising :

receiver means (154) receiving the information encoded electromagnetic energy when transmitted through the window, (63)

signal processing means (100) for decoding information included in the electromagnetic energy, and

control means (101) for carrying out at least one predetermined function based on the decoded information,

wherein the receiver means (154) is coupled to the signal processing means (100) and the signal processing means is further coupled to the control means (101)

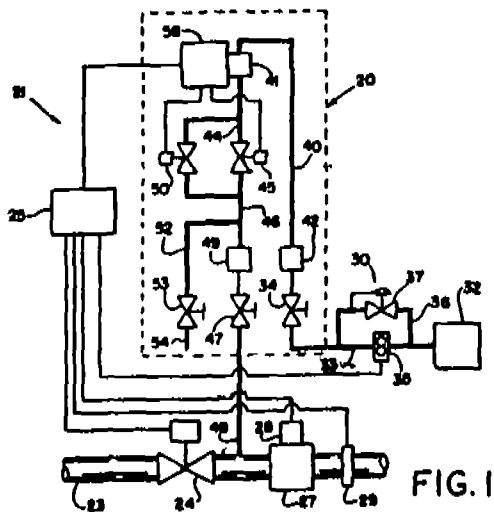


FIG. 1

(Complete Specification 29 Pages Drawing Sheets-7)

Ind Cl 32E

185976

Int Cl<sup>4</sup> C08L, 5/08

#### METHOD OF MANUFACTURING AN ELASTOMER USING CHITOSAN REINFORCEMENT

Applicant THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF OHIO, UNITED STATES OF AMERICA, OF 1144 EAST MARKET STREET, AKRON, OHIO 44316-0001, UNITED STATES OF AMERICA

Inventors DEBORAH ANN TUNG—U S A AND RICHARD GEORGE BAUER—U S A

Application for Patent No 44/Del/93 filed on 20th Jan, 93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005

3 Claims

A method of manufacturing an elastomer using chitosan reinforcement for use in elastomeric products comprising the steps of

- (a) deacetylating chitin using an hydroxyl solution by stirring said chitin in said solution for two hours at

140 degrees centigrade producing chitosan

- (b) dissolving said chitosan in weak acid to produce a chitosan solution
- (c) mixing said chitosan solution with a conventional coagulating solution adapted to coagulate a latex
- (d) preparing in a conventional manner a latex solution of an elastomer of the kind as herein described
- (e) heating said coagulating solution adapted to coagulate said latex to a temperature of 70 to 80 degrees C, and
- (f) dripping said latex solution into said coagulating solution said latex thereby incorporating chitosan fibers therein upon coagulation
- (g) isolating the chitosan/rubber product, and mixing said chitosan/rubber product with additional elastomer to obtain an elastomer containing 5 to 30 parts by weight per hundred parts by weight rubber (phr) of chitosan fibers

(Complete Specification 21 Pages Drawing Sheets 3)

Ind Cl 70C<sub>4</sub>

185977

Int Cl<sup>4</sup> H01J 29/04

#### AN IMPROVED PROCESS FOR THE PREPARATION OF SINTERED POROUS REFRACTORY METAL CATHODE MATRIX

Applicant COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI 110001 INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860)

Inventors ASHOK KUMAR CHOPRA, MAHESH KUMAR & RAM NIWAS NAIK

Application for Patent No 68/Del/93 filed on 28-1-93

Complete left after Provisional specification filed on 13-5-93

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi 110005

8 Claims

An improved process for the preparation of sintered porous refractory metal cathode matrix which comprises

- (a) forming non-fragile pellets of the conventional emissive compound or its mixture by conventional methods,
- (b) placing the said pellets formed over the refractory metal matrix, which is to be impregnated,
- (c) heating the matrix containing the emissive chemical compound in a chamber kept in vacuum or in an inert/reducing atmosphere by using an inert gas which does

not react with the matrix or the emissive compound, at a temperature in the range of  $1700 \pm 50^\circ\text{C}$ ,

- (d) rubbing or scrubbing the excessive emissive chemical from resultant impregnated refractory metal cathode matrix by conventionally used compatible methods to get sintered powder refractory metal cathode matrix.

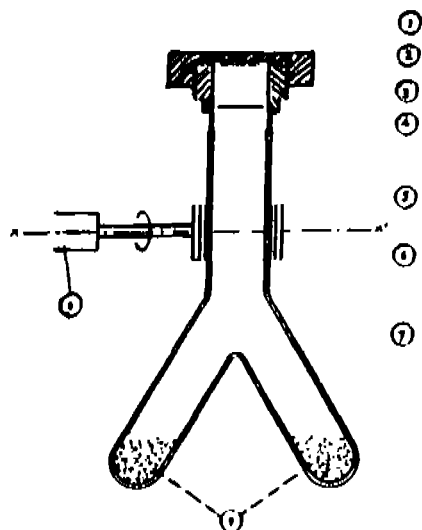


FIG. 1

(Provisional Specification : 7 Pages).

(Complete Specification : 9 Pages. Drawing Sheets : 3)

Ind. Cl. : 39C

185978

Int. Cl.<sup>4</sup> : C01B—21/082.

A METHOD FOR THE MANUFACTURE OF STABILIZED AMINE OXIDE.

Applicant : ALBRIGHT & WILSON LIMITED, A BRITISH COMPANY, OF P.O. BOX 3, 210-222 HAGLEY ROAD WEST, OLDBURY, WARLEY, WEST MIDLANDS B68 0NN, ENGLAND.

Inventor(s) : MICHAEL BLEZARD—ENGLAND, GLYN RONALD JONES—ENGLAND, MOHARAM GHADIMI—ENGLAND.

Application for Paten No. 81/Del/93 filed on 29.1.93.

Convention Date 31.1.92/9202057.7/UK.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

16 Claims

A method for the manufacture of stabilized amine oxide having lower concentration of nitrosamines and nitrites, said method comprising reacting a tertiary amine of the kind such

as herein described with hydrogen peroxide in the present of a synergistic stabilizers comprising at least 0.05% by weight of a carbonate or bicarbonate and at least 0.005% by weight of a phosphonate at a temperature of from  $2^\circ\text{C}$  to  $85^\circ\text{C}$ .

(Complete Specification : 19 Pages Drawing Sheet : Nil)

Ind. Cl. : 50CD.

185979

Int. Cl.<sup>4</sup> : F 25C 1/00.

AN IMPROVED MOULD FOR MAKING ICE-CREAM AND THE LIKE.

Applicant : NEELKANTH RATNAKAR DONGRE, AN INDIAN HAVING OFFICE AT C-37, CONNAUGHT PLACE, NEW DELHI, INDIA

Inventor : NEELKANTH RATNAKAR DONGRE—(INDIA).

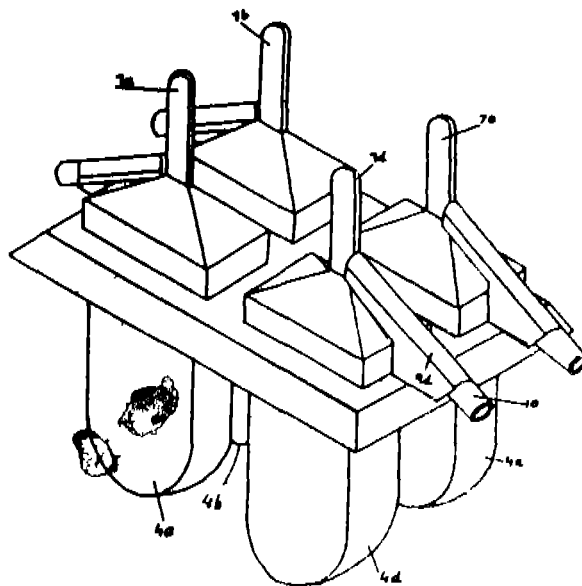
Application for Patent No. 120/Del/93 filed on 12.2.93

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

An improved mould for making ice-cream, iceed lollies and the like comprising

—a body portion and one or more handle portions,



—the said body portion having a platform part with one or more openings leading to hollow containers corresponding to each of said openings extending on one side of the plane of such platform part, wherein,

- each of said handle portion corresponding to each opening and container and having a stick for holding the iced lolly, a grip and a walled element for collecting droplets of melted ice,
- the said walled element having an aperture with an integral mouthpiece for sucking such melted ice,
- the said handle portions being used cooperatively with the body portion so that a desired liquid in the hollow container upon being frozen forms around the said stick of each of said handle portions and is removed along with the said handle portion.

(Complete Specification : 5 Pages. Drawing Sheets : 3).

Inc. Cl. : B41F 1/00.

185980

Int. Cl.<sup>4</sup> : 154D.

#### INTAGLIO PRINTING MACHINE.

Applicant : DE LA RUE GIORI S.A. 4 RUE DE LA PAIX 1003 LAUSANNE, SWITZERLAND, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF SWITZERLAND:

Inventor : GERMANN ALBRECHT JOSEF—GERMANY.

Application for Patent No. 179/Del/93 filed on 1.3.93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

An intaglio printing machine having a plate cylinder (2) carrying at least one printing plate, an impression cylinder (1) cooperating with said plate cylinder (2), a wiping device (3) cooperating with the plate cylinder, a color-collect cylinder (8), stencil rollers (10) and inking units (11) inking these

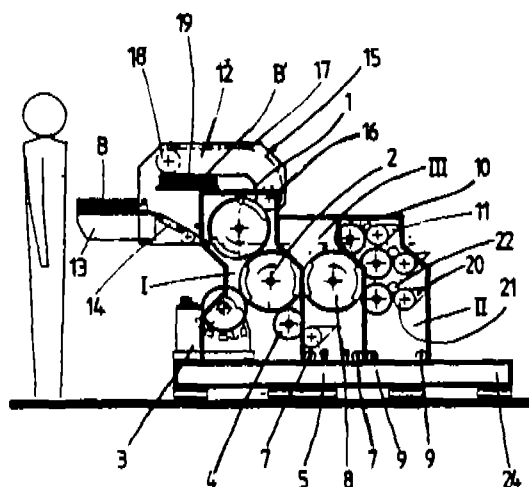


FIG 1

stencil rollers the plate cylinder, impression cylinder and wiping device being mounted in a first machine stand (I), wherein the stencil rollers (10) and their inking units (11) are mounted in a second machine stand (II), which is adjustable in a direction oriented perpendicularly to the roller axes, the color collect cylinder (8) is mounted in a third machine stand (III) which can be removed from the space between the first and second machine stands.

(Complete Specification 11 Pages Drawing Sheets 5)

Ind. Cl. : 14 A 1 C

185981

Int. Cl.<sup>4</sup> : H 01 L 31/00

#### PROCESS FOR THE MANUFACTURE OF A MULTI-LAYER PHOTO-VOLTAIC DEVICE

Applicant : BP SOLAR LIMITED, A BRITISH COMPANY OF BRITANNIC HOUSE, 1 FINSBURY CIRCUS, LONDON EC2M 7BA, ENGLAND

Inventor(s) : DANIEL ROBERT JOHNSON—ENGLAND, SENER OKTIK—ENGLAND, MEHMET ERSIN OZSAN—ENGLAND, MICHAEL HOLMES PATTERSON—ENGLAND.

Application for Patent No. 1028/Del/92 filed on 09.11.92

Convention Application No. 9123684 4/7.11.91/U K

Appropriate Office for Opposition Proceeding Rule 4. (Patents Rules 1972) Patent Office Branch, New Delhi-5

#### 14 Claims

Process for the manufacture of a multi-layer photo-voltaic device for use in the manufacture of a photovoltaic cell, and comprising a p-type IIB/VIB semiconductor layer and a conductive layer, said process comprising the steps of

- (a) Producing as herein described a p-type IIB/VIB semiconductor layer having a surface which is substantially free of oxide groups,
- (b) optionally, depositing said semiconductor layer onto said conductive layer.
- (c) treating said surface by the successive steps of
  - (i) depositing as herein described a viscous liquid containing a Group IB metal salt on said surface
  - (ii) heating as herein described the resulting deposit to form a dried layer
  - (iii) removing said dried layer.
  - (iv) washing as herein described said surface to remove residual by-products formed during a preceding step, and
  - (v) drying said surface; and either

- (d) depositing a conductive layer onto the dried surface of step (c) (v), or
- (e) depositing onto the dried surface of step(c) (v), a second p-type IIB/VIB semiconductor layer which is thicker than the p-type IIB/VIB semiconductor layer of step (a).

(Complete Specification : 13 Pages. Drawing Sheet : Nil).

Ind. Cl. : 108 B<sub>1</sub>. 185982

Int. Cl.<sup>4</sup> : C 22B—15/00.

#### AN IMPROVED PROCESS FOR THE EXTRACTION OF COPPER FROM CHALCOPYRITE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001. INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventor(s) : SANJAY PRASAD—INDIA, BANSHI DHAR PANDEY—INDIA.

Application for Patent No. 0196/Del/93 filed on 3.3.93.

Appropriate Office for Opposition Proceedings Rule 4, (Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

An improved process for the extraction of copper from chalcopryrite which comprises :

- (i) Sulphatising the ground chalcopryrite ore/concentrate maintaining the temperature in the range of 400 to 750°C by passing steam and oxygen mixture for a period of 30 to 120 minutes,
- (ii) Quenching the sulphated product in water,
- (iii) Leaching the slurry with hot water at a temperature of 50 to 100°C having a solid to liquid ratio ranging from 1:5 to 1:12 (wt by volume) for a period in the range of 30 to 90 minutes,
- (iv) Filtering the leach liquor to recover the metallic values in solution as sulphate,
- (v) Recovering metal values from leach liquor by any known electrowinning process.

(Complete Specification : 14 Pages. Drawing Sheet : Nil).

Ind. Cl. : 32C. 185983

Int. Cl.<sup>4</sup> : C011D—1/29.

#### GRANULAR DETERGENT COMPOSITIONS.

Applicant : THE PROCTER & GAMBLE COMPANY, A CORPORATION ORGANIZED AND EXISTING

UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA OF ONE PROCTER & GAMBLE PLAZA, CINCINNATI, STATE OF OHIO 45202, UNITED STATES OF AMERICA.

Inventor(s) : FIONA SUSAN MACBEATH,—GB AND SUZANNE POWELL—GB.

Application for Patent No 206/Del/93 filed on 03rd March, 93.

Covention Application No 9205189 5/UK/10 03 92

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office Branch, New Delhi-110005.

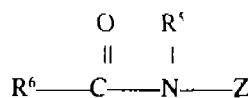
#### 23 Claims

A granular detergent composition having a density greater than 550g/litre and formed of a plurality of separate particulate components, wherein at least one particulate component comprises :

(a) from 5% to 60% by weight of the components of a surfactant system consisting essentially of :

(i) a primary anionic or non-ionic surfactant selected from :

- (1) a C<sub>14</sub>–C<sub>20</sub> alkyl sulfate salt;
- (2) an aliphatic C<sub>12</sub>–C<sub>20</sub> alkane sulfonate salt,
- (3) a C<sub>12</sub>–C<sub>20</sub> alkyl methyl ester sulfonate salt;
- (4) a polyhydroxy fatty acid amide having the formula



where R<sup>5</sup> is, H, C<sub>1</sub>–C<sub>4</sub> hydrocarbyl, 2-hydroxyethyl, 2-hydroxyethyl, or a mixture thereof, R<sup>6</sup> is C<sub>11</sub>–C<sub>11</sub> hydrocarbyl and Z is a poly hydroxyhydrocarbyl having a linear hydrocarbon chain with at least 3 hydroxy groups directly connected to said chain or an alkoxyolated derivative thereof;

and mixtures of any of the foregoing

(ii) a water soluble C<sub>11</sub>–C<sub>18</sub> alkyl ethoxysulfate salt containing an average of from 1 to 7 ethoxy groups per mole;

said primary anionic or non-ionic surfactant or mixtures thereof and said water soluble C<sub>11</sub>–C<sub>18</sub> alkyl ethoxysulfate salt being in intimate admixture and the weight ratio of the primary anionic or non-ionic surfactant or mixtures thereof to the alkyl ethoxysulfate salt being from 2 : 1 to 19 : 1 provided that the level of the alkyl ethoxysulfate salt is from 0.25% to 10% by weight of the component;

(b) from 15% to 95% by weight of the component of an organic and/or inorganic builder salt or a mixture of such salts; and

(c) optional conventional detergent composition components selected from additional particulate components, additional non-ionic surfactants, water and mixtures thereof.

(Complete Specification : 57 Pages. Drawing Sheets : 4).

Ind. Cl. : 13E, F, I

185984

Int. Cl.<sup>4</sup> : B 30B 15/02

A PROCESS FOR THE PREPARATION OF CELLULOSE MOULDINGS AND A DEVICE FOR CARRYING OUT THE SAID PROCESS.

Applicant : LENZING AKTIENGESELLSCHAFT, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF AUSTRIA, OF A-4860 LENZING, AUSTRIA.

Inventor(s) : STEFAN ZIKELI—AUSTRIA ERNST RAUCH—AUSTRIA HERMANN KOBERGER—AUSTRIA FRIEDRICH BCKER—AUSTRIA HARTMUT RUF—AUSTRIA RAIMUND JURKOVIC—AUSTRIA FRANZ SCHWENNINGER—AUSTRIA.

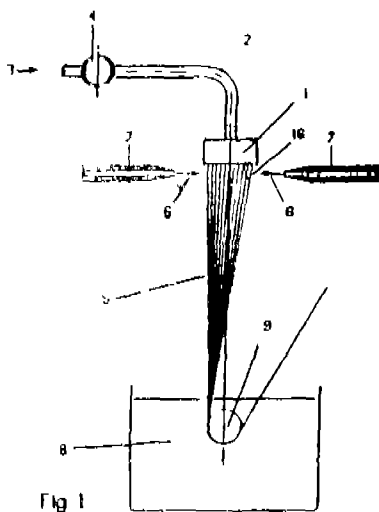
Application for Patent No. 217/Del/93 filed on 5.3.93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for the preparation of cellulose mouldings comprising the steps of :

passing a hot solution of cellulose in a tertiary amine-oxide by passing the cellulose solution through a spinneret characterized by,



cooling the hot solution by exposing it to at least one gas stream, wherein the direction of spinning is essentially at right angles to the gas stream,

introducing the cooled solution into a precipitation bath thereby forming a cellulose moulding, whereby cooling of the hot solution takes place immediately after the moulding process and before introduction into the bath.

(Complete Specification : 13 Pages

Drawing Sheet : 3).

Ind. Cl. : 205H

185985

Int. Cl.<sup>4</sup> : B 29D 30/06

A PNEUMATIC TRUCK TIRE.

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO 44316-0001, U. S. A.

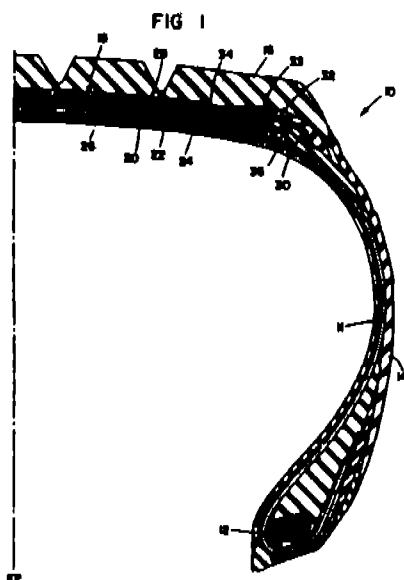
Inventor(s) : PEDRO (NMN) YAP—U.S.A., ALAN PHILIP DALE—U.S.A. AND GUY (NMN) DAUPHIN—U.S.A.

Application for patent No. 235/Del/93 filed on 11.3.93.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A pneumatic truck tire (10) comprising a pair of axially spaced annular beads (12) a plurality of carcass plies (11) wrapped around said beads (12), a plurality of belt plies (20, 22, 24, 26) disposed over said carcass plies (11) in a crown area of said tire, tread rubber (16) having a width of 200 to 450mm (8 to 18 inches) disposed over said belt plies (20, 22, 24, 26), and sidewalls (14) disposed between said tread rubber (16) and said beads (12), said sidewalls (14) and tread rubber (16) meeting in shoulder areas of said tire (10), and an overlay strip (32) having a width of 25 to 76mm (1 inch to 3 inches) disposed in each shoulder area of said tire (10), a gum rubber wedge (30) being disposed between axially outer belt edges (33, 36) of a second (22) and third (24) said belt plies (20, 22, 24, 26) and said overlay strip (32) strip overlaps said wedge (30).



(Complete Specification : 22 Pages Drawing Sheets : 2).

Ind. Cl. : 64 B<sub>1</sub>

185986

Int. Cl.<sup>4</sup> : H 01R 15/10

A SOCKET FOR USE FOR ELECTRICAL CONNECTIONS.

Applicant : SANDEEP KUMAR DOOMRA, AN INDIAN NATIONAL OF FLAT NO. 32, POCKET NO. 3, MAYUR VIHAR, PHASE-1, DELHI-110091. INDIA.

Inventor(s) : SANDEEP KUMAR DOOMRA—INDIA.

Application for Patent No. 277/Del/93 filed on 22.3.93.

Appropriate Office for opposition proceedings Rule 4, (Patents Rules 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A socket for use for electrical connections comprising a socket outlet cover 1 to be secured with the base assembly, a spring loaded shutter 7 being provided movably between said outlet cover 1 and base assembly to cover the holes 3 provided in said outlet cover 1 for receiving the terminal pins 19 of a plug, characterised in that a recess 2 being provided into said cover 1 to accommodate the protrudent portion 18 of said plug, socket contacts 4 being disposed into said base assembly, said base assembly consists of a front and back plate 9 and 10 made of ceramic material and is secured with said outlet cover 1, channels 11 being provided at the inner side of said back plate for passing electric wires there-through to said socket contacts 4.

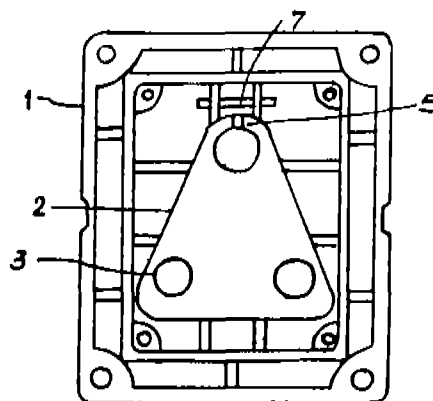


Fig. 3

(Complete Specification : 11 Pages Drawing Sheets : 2)

Ind. Cl. : 144 E6

185987

Int. Cl.<sup>4</sup> : C09C 1/00, 1/28.

AN IMPROVED PROCESS FOR THE PREPARATION OF HEAT RESISTANT ANTICORROSIVE COATING

Applicant COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG NEW DELHI-1, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : MUTHIAH SELVARAJ, SULTAN SYED AZIM AND KRISHNASWAMY BALAKRISHNAN (INDIAN).

Application for Patent No. 285/Del/93 filed on 23.3.93

Complete left after Provisional specification filed on 2.6.94.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-10005

6 Claims

An improved process for the preparation of heat resistant anticorrosive coatings which comprises dissolving 42 to 47 wt% of a silicone resin in 29 to 29.5 wt% of a solvent such as xylene, n, butyl alcohol adding 3 to 4 wt% of silicone oil to the resin solution under stirring, adding 6 to 7.5 wt% of polymerised butyl titanate resin and diluting by adding 15 to 17 wt% of butanol to obtain silicone titanate resin solution, dispersing by known methods pigments such as titanium dioxide, mica, silica carbon black in the said resin solution to obtain the anticorrosive coating

(Provisional Specification : 5 Pages Drawing Nil Sheet)

(Complete Specification : 10 Pages Drawing Nil Sheet)

Ind. Cl. : 144 E6

185988

Int. Cl.<sup>4</sup> : C09C 1/00.

AN IMPROVED PROCESS FOR THE PREPARATION OF A HEAT RESISTANT ANTICORROSIVE COATING USING EPOXY—SILI—CONE RESIN.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860)

Inventor(s) : MUTHIAH SELVARAJ, SULTAN SYED AZIM AND KRISHNASWAMY BALAKRISHNAN, (INDIA).

Application for Patent No 286/Del/93 filed on 23 3 93

Complete left after Provisional specification filed on 2 6 94

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

An improved process for the preparation of heat resistant anticorrosive coating using epoxy silicone resin which comprises,

- (i) dissolving 50 to 54.5% high molecular weight epoxy resin in 27.5 to 28 wt of a solvent consisting of 1:1:1 mixture of xylene, butyl collosolve & methyl isobutyl ketone, adding 9 to 11.5 wt% of high molecular weight silicone resin under stirring and diluting by adding 9 to 10wt% of xylene to obtain epoxy-silicone resin solution, dispersing in the resin solution pigments such as iron oxide, titanium dioxide, zinc oxide, talc, carbon black, mica silica
- (ii) dissolving 45 to 50wt% polyamide hardener in a solvent such as xylene, toluene
- (iii) mixing the pigmented epoxy-silicone resin solution obtained in step (a) with the polyamide hardener solution obtained in step (b) in a ratio in the range of 5:1 to 10:1 to obtain anticorrosive heat resistant coating.

(Provisional Specification : 6 Pages Drawing Nil Sheet)

(Complete Specification : 12 Pages Drawing Nil Sheet)

Ind. Cl. : 40 F.

185989

Int. Cl.<sup>4</sup> : B01D 57/00.

AN IMPROVED METHOD FOR SEPARATING CARBON FIBRES FROM THE TOWS WHICH ARE USEFUL FOR MANUFACTURING COMPOSITES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA,

AN INDIAN BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (XXI OF 1860)

Inventors : BALLEMBETTU CHANDRASEKHAR PAI, KESTUR GUNDAPPA SATYANARAYANA & PUTHUVEETIL SREEDHARAN ROBI (INDIA)

Application for Patent No 370/Del/93 filed on 13-4 93

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

An improved method for separating carbon fibres from the tows which are useful for manufacturing composites which comprises immersing the tows of carbon fibres in non halide organic polar solvents or their mixtures, and subjecting the resultant mixture to ultrasonic vibration for 5 sec. to 10 000 seconds separating the fibre by conventional methods washing and drying to get separated fibres

(Complete Specification 6 Pages Drawing Nil Sheet)

Ind. Cl. 116F

185990

Int. Cl. E 04 H 6/12, 6/06

## MOTOR VEHICLE PARKING APPARATUS

Applicant : ERIDE ROSSATO, an Italian citizen of Via Galileo Galilei 20, 30035 Mirano, Italy

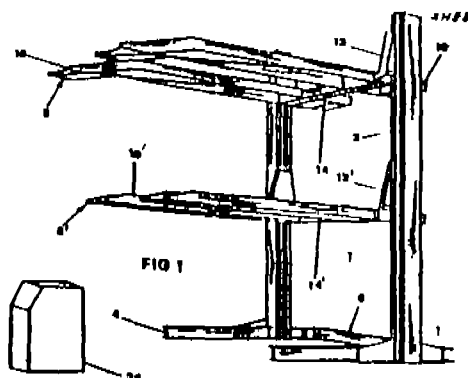
Inventor(s) : ERIDE ROSSATO—ITALY

Application for Patent No 760/Del/93 filed on 21-7-93

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-10005  
(9 Claims)

A vehicle parking apparatus, characterized in that said apparatus comprises in combination :

a pair of vertical columns (2), a plurality of platforms slideably (8, 8') and independently mounted on said columns, (2) means (30, 34) for locking said platforms (8, 8') on said columns at predetermined distances apart, a member (22, 28) located along said columns for driving said platforms (8, 8') said member being provided with a central control unit (22, 28) for said driving member and said locking means



(Complete Specification 13 Pages Drawing Sheets 3)

## OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Thermax Limited, Pune to the grant of a patent on application No. 184940 (938/Mas/94) made by Haldor Topsoe A/S, Denmark.

(2)

An opposition has been entered by Bajaj Auto Limited, Pune to the grant of a Patent on application No. 185043 (1224/Mas/94) made by Honda Giken Kogyo Kabushiki Kaisha, Japan.

## RENEWAL FEES PAID

179257 179292 179318 183513 182990 180443 180678  
 183022 178943 172646 167749 176762 173921 175318  
 179341 170378 170818 180464 181149 182980 173682  
 179708 181165 181792 180418 180525 181218 178804  
 176732 183692 180549 180548 181203 179679 179916  
 181313 172256 172936 175815 183260 175819 183303  
 179317 175536 170569 181944 180790 175666 183750  
 181161 182555 180538 184000 183999 183983 183998  
 183996 183995 183994 183993 183992 184011 184012  
 184013 184014 176761 172239 180467 171381 174071  
 173103 183957 183741 183980 183979 183978 183977  
 183976 183975 183974 183973 183972 183971 183990  
 183989 183988 183987 170982 181168 174981 175894  
 176790 179379 181170 183125 171048 173155 183851  
 179760 179416 181492 183109 171024 180805 180806  
 173642 173675 171025 181314 182875 182555 169845  
 183854 171685 178100 180809 183305 183848 179460  
 180468 175817 171688 183014 183024 180593 181167  
 183012 180237 184080 184076 184069 184071 184070  
 184072 184074 184086 184087 184065 184066 184067  
 184084 184085 184064 184112 184113 184114 184081  
 184082 184083 184119 184061 184120 183955 184016  
 184015 184019 184018 184017 178496 181972 175893  
 170856 173366 180526 180527 179633 180219 180531  
 181943 179156 183304 180455 180461 170859 181799  
 181847 179917 176641 181438 179415 179634 175885  
 181193 183749 180802 173693 174332 180630 180831  
 180832 180833 184214 175218 175212 183066 170972  
 173897 172161 171303 171302 182268 182216 177504  
 184371 182826 181443 181326 181325 179935 177688  
 174757 174363 170773 178973 183173 181487 178266  
 177656 177521 173790 173207 172055 169579 169514  
 181951 175622 174653 178964 177601 181762 182478  
 179055 177604 181353 173258 171526 171039 179191  
 175681 175925 177498 179445 178440 182451 181654  
 181526 178976 169573 177092 178319 181570 183964  
 168809 184218 182668 181606 173716 179070 175977  
 175768 174296 171086 169031 173718 176484 181179  
 180777 177551 176315 171657 177689 174661 173388  
 180490 181634 177844 173428 182654 182628 182458  
 175933 177531 177983 175288 184583 184589 184249  
 178337 181464 182999 182457 179122 178645 170251  
 178221 177990 182720 178674 176504 174959 184024

183967 183965 183962 183145 182202 181336 177585  
 177574 177110 177071 175923 178895 182931 184276  
 182149 182418 181465 175042 183355 182112 180712  
 178425 177543 177434 175833 182956 182656 170728  
 181780 182647 178791 182667 168759 171555 176054  
 182752 180121 182652 177773 174993 183317 184446  
 183111 177527 181384 184157 184273 184319 184528  
 184529 184374 184320 184443 184280 181324 181664  
 178411 182337 181516 179543 179213 182294 183907  
 183904 183903 183401 183278 183223 181706 181586  
 179056 177881 175582 181662 178205 183429 183226  
 182857 171138 178678 181178 183641 182954 183206  
 181897 181594 181016 183178 179021 176351 172293  
 182666 182867 182795 172304 174000 174317 177254  
 177720 180322 180760 183612 183282 183891 183937  
 172607 174843 177258 179223 180331 180739 180740  
 182831 183895 183926 183932 183658 183659 183940  
 174628 178143 180329 180061 174774 172335 172585  
 178995 176689 184232 184238 181261 175446 180058  
 172339 173795 179737 174825 175452 180625 174827  
 174828 178144 179712 180328 180051 174772 174606  
 175607 180060 181429 181430 181480 182832 183834  
 183893 183774 174635 177252 179761 184290 184283  
 184287 183418 175181 180055 181692 172212 175450  
 180326 180341 180734 183185 184007 183828 183921  
 183944 183946 184091 184110 172340 177454 174923  
 174728 167937 169550 171648 171790 172326 172333  
 172361 172286 178324 179095 179523 179713 180736  
 181262 182432 182631 184366

## PATENT SEALED ON 27-04-2001

183330\*D 183600\*D 183800\*D 184331 184620\* 184724  
 184772\* 184775\* 184776\* 184777\* 184778 184780 184781  
 184782 184783 184784 184786 184788 184789\* 184790  
 184792\* 184794 184795 184796 184797 184798 184799  
 184800 184801 184802\*D 184803\*D 184804\*D 184805\*D  
 184807\*D 184808\*D 184809\*D 184810\*D

Cal-02, Del-16, Mum-01, Chen-18

\*Patent shall be deemed to be endorsed with words licence of right under Section 87 of the Patents Act, 1970 from the date of expiration of three years of the date of sealing.

D—Drug Patents

F—Food Patents.

## REGISTRATION OF DESIGN

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in section 50 of the Design Act, 1911.

The date shown in the each entries is the date registration included in the entries

Class 1 No. 183220. Venus Internation, 761, Industrial Area-B, Behind Pahwa Hospital, Ludhiana-03 (P.B.) India. "HACKSAW". 16th August 2000.

- Class 1** No. 183503. Kapman AB, A Swedesh Company, S-811 81 Sandiviken Sweden. "HACKSAW BLADE DISPENSER". 22nd September 2000.
- Class 3** No. 183321 & 183322. Venus International, 761, Industrial Area-B, Behind Pahwa Hospital, Ludhiana-03 India. "HACKSAW". 16th August 2000.
- Class 3** No. 183229. Raco Industries, D-2, Extension-Y, Vishnu Garden, New Delhi-110018, India. "CAR WHEEL COVER". 16th August 2000.
- Class 3** No. 183230. Raco Industries, D-2, Extension-V, Vishnu Garden, New Delhi-110018, India. "COOLER CABINET". 16th August 2000.
- Class 3** No. 183314. The Gillette Company, The State of Delaware, U.S.A. of Prudential Tower Building, Boston, MA 02199, U.S.A. "RAZOR". 28th August 2000.
- Class 3** No. 183391. Flora Ball Pens (P) Ltd. of 22 Bonfield Lane, Calcutta-700001, State of West Bengal, an Indian Company, "PRN". 7th September 2000.
- Class 3** 183439. Govind Rubber Limited, 318 Creative, 72, N. M. Joshi Marg, Lower Parel, Mumbai-400011, Maharashtra, India. "CYCLE TYRE". 18th September 2000.
- Class 3** No. 183547. Pechiney Plastic Packaging, Inc. 8770 West Bryn Mawr Avenue, Chicago, Illinois 60631, U.S.A. "CLOSURE FOR CONTAINER". 29th September 2000.
- Class 3** No. 183548. Siemens Elasa, S.A. of Poligono Industrial Malpica D98-50016—Saragoza Spain, a Spanish Company. "PUBLIC TELEPHONE". 29th September 2000.
- Class 3** No. 184268. Jana Glass Mould and Engineering Works, an Indian partnership firm of 6/1, Brojo Nath Lahiri Lane, Howrah-711106, West Bengal, India. "CAP OF THE BOTTLE". 27th December 2000.
- Class 10** No. 182957 to 182958. Unisot India (P) Ltd. of 134, DSIDC Complex, Okhla Industrial Area, Phase-1, New Delhi-110020, an Indian Company. "SHOE SOLE". 20th July 2000.

H. D. THAKUR  
Controller General of  
Patents Designs and Trade Marks